2024 国际制导、导航与控制学术会议

2024 International Conference on Guidance, Navigation and Control

2024年8月9-11日 中国・长沙

August 9-11, 2024 Changsha, China

ICGNC 2024程序册

Final Program



http://icgnc.buaa.edu.cn



ICGNC 2024

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主办单位

中国航空学会制导、导航与控制分会 飞行器一体化控制全国重点实验室

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欢迎辞

Welcome Address

We are pleased to welcome you to the 2024 International Conference on Guidance, Navigation and Control (ICGNC 2024), which takes place at Changsha International Conference Center, China. ICGNC 2024 is scheduled on August 9-11, 2024. ICGNC 2024 has received worldwide attentions from GNC researchers, professors and students, which shows GNC is a rising and hot field.

International Conference on Guidance, Navigation and Control (ICGNC) is a biennial event, which is also one of the leading events in Guidance, Navigation and Control (GNC). ICGNC 2024 is sponsored by Technical Committee on Guidance, Navigation and Control (TCGNC), Chinese Society of Aeronautics and Astronautics (CSAA), and National Key Laboratory of Aircraft Integrated Flight Control. It is technically co-sponsored by State Key Laboratory of Virtual Reality Technology and Systems Technical Committee on Navigation, Guidance and Control (TCNGC), CAA, Technical Committee on Unmanned Aerial Systems Autonomous Control (TCUASAC), CAA, Technical Committee on Control Theory (TCCT), CAA, Technical Committee on Robotics Intelligence (TCRI), CAA, Education Committee (EC), CAA, and *Guidance Navigation and Control* Editorial Office. ICGNC 2024 is organized by National University of Defense Technology. The conference consists of plenary talks, chief designer forum, national-level model teacher forum, young scientist forum, invited sessions, oral sessions and poster sessions for academic exchanges.

The ICGNC 2024 marks the eleventh edition of the GNC series. We are proud to announce that this congress has received 1575 papers submissions from 12 countries and areas such as Canada, Chile, Germany, Japan, Russia, Singapore, United Kingdom, United States of America. This is the highest number since the launching of ICGNC. After a rigorous peer-review process, 1050 English papers, 248 Chinese Papers and 34 Abstract Papers have been accepted for either oral or poster presentation at the conference in 41 oral technical sessions and 4 poster sessions, which including 1 best paper award oral defense session.

The conference program is highlighted by six plenary speeches given by Professor Jiancheng Fang from Beihang University, Professor Weihua Gui from Central South University, Professor Zongxia Jiao from National Key Laboratory of Aircraft Integrated Flight Control, Professor Andrey Polyakov from Inria Centre of the University of Lille (France), Professor Yaonan Wang from Hunan University, and Professor Qifeng Yu from National University of Defense Technology.

This year, we invited three panelists for Chief Designer Forum, who are Yong Chen from Commercial Aircraft Corporation of China, Weiping Yang from AVIC Xi'an Flight Automatic Control Research Institute, and Xin Zheng from China Aerospace Science and Industry Corporation. The conference program also features a GNC National-level Model Teacher Forum on innovation and practice of GNC education with three famous nationallevel model teachers: Professor Shangchun Fan from Beihang University, Professor Hong Wang from Tsinghua University, and Professor Chenghui Zhang from Shandong University. We also invited seven young famous scholars in GNC field for Young Scientist Forum, who are Professor Cailian Chen from Shanghai Jiao Tong University, Professor Jinliang Ding from Northeastern University, Professor Zhunga Liu from Northwestern Polytechnical University, Professor Zehui Mao from Nanjing University of Aeronautics and Astronautics, Professor Jun Luo from Chongqing University, Professor Xin Xu from National University of Defense Technology, and Professor Bin Zhou from Harbin Institute of Technology.

ICGNC 2024 also confers the LI Ming Best Paper Award, FENG Ru Best Paper Award and Best Poster Paper Award, to promote the academics, encourage young scientists to participate in academic activities, further to improve the paper quality and expand conference influence.

Our English proceedings have been sent and will be published by Springer-Nature in *Lecture Notes in Electrical Engineering* promptly, and the accepted Chinese papers will be published in several esteemed journals. We show our special thanks to the staffs of Springer-Nature and other Chinese journal publishers. We also wish to express our sincere appreciation to all the individuals who have contributed to ICGNC 2024 in various ways. Special thanks are extended to our colleagues in the program committee for their thorough review of all the submissions, which is vital to the success of this conference, and also to the members in the organizing committee and the volunteers who have dedicated their time and efforts in planning, promoting, organizing and helping the conference. Last but not least, our special thanks go to invited plenary speakers as well as all the authors for contributing their latest research to the conference, and to the participants and the exhibitors in making ICGNC 2024 a memorable event.

Let us cherish our gathering in the famous city - Changsha for this exciting event in this hot summer. We hope that your stay in Changsha will be enriching and memorable and that the technical program will send you back home motivated, enthusiastic, cool, and full of innovative ideas.

We hope you enjoy the "hot", fruitful and happy conference in Changsha.



Jun Youg



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国际制导、导航与控制学术会议

历届会议

- **第一届** 2007 中国制导、导航与控制学术会议 2007 年 11 月 4-5 日,中国 北京
- **第二届** 2008 中国制导、导航与控制学术会议 2008 年 11 月 14-16 日,中国 西安
- **第三届** 2009 中国制导、导航与控制学术会议 2009 年 11 月 14-15 日,中国 北京
- **第四届** 2010 中国制导、导航与控制学术会议 2010 年 10 月 16-18 日,中国 上海
- 第五届2012 中国制导、导航与控制学术会议
2012 年 8 月 10-12 日,中国 北京
- 第六届2014 IEEE 中国制导、导航与控制学术会议2014 年 8 月 8-10 日,中国 烟台
- 第七届2016 IEEE 中国制导、导航与控制学术会议2016 年 8 月 12-14 日,中国 南京
- **第八届** 2018 IEEE/CSAA 制导、导航与控制学术会议 2018 年 8 月 10-12 日,中国 厦门
- **第九届** 2020 国际制导、导航与控制学术会议 2020 年 10 月 23-25 日,中国 天津
- 第十届2022 国际制导、导航与控制学术会议2022 年 8 月 5-7 日,中国 哈尔滨
- 第十一届 2024 国际制导、导航与控制学术会议 2024 年 8 月 9-11 日,中国 长沙

第十二届 2026 国际制导、导航与控制学术会议 2026 年 8 月 7-9 日,中国 桂林

第十三届2028 国际制导、导航与控制学术会议2028 年 8 月,中国成都

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	2007 Chinese Guidance, Navigation and Control Conference November 4-5, 2007, Beijing, China
Second	CGNCC 2008 2008 Chinese Guidance, Navigation and Control Conference November 14-16, 2008, Xi'an, China
Third	CGNCC 2009 2009 Chinese Guidance, Navigation and Control Conference November 14-15, 2009, Beijing, China
Fourth	CGNCC 2010 2010 Chinese Guidance, Navigation and Control Conference October 16-18, 2010, Shanghai, China
Fifth	CGNCC 2012 2012 Chinese Guidance, Navigation and Control Conference August 10-12, 2012, Beijing, China
Sixth	IEEE CGNCC 2014 2014 IEEE Chinese Guidance, Navigation and Control Conference August 8-10, 2014, Yantai, China
Seventh	IEEE CGNCC 2016 2016 IEEE Chinese Guidance, Navigation and Control Conference August 12-14, 2016, Nanjing, China
Eighth	IEEE/CSAA GNCC 2018 2018 IEEE/CSAA Guidance, Navigation and Control Conference August 10-12, 2018, Xiamen, China
Ninth	ICGNC 2020 2020 International Conference on Guidance, Navigation and Control October 23-25, 2020, Tianjin, China
Tenth	ICGNC 2022 6

	2022 International Conference on Guidance, Navigation and Control August 5-7, 2022, Harbin, China
Eleventh	ICGNC 2024 2024 International Conference on Guidance, Navigation and Control August 9-11, 2024, Changsha, China
Twelfth	ICGNC 2026 2026 International Conference on Guidance, Navigation and Control August 7-9, 2026, Guilin, China
Thirteenth	ICGNC 2028 2028 International Conference on Guidance, Navigation and Control August, 2028, Chengdu, China

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何晓峰	刘德元	牛轶峰	孙永斌
11/00 -			11/14/24

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Rui Wang Shaoping Wang Wenjuan Wang Xiangmin Wang Xiaowei Wang Yin Wang Yingxun Wang Yong Wang Yongji Wang Zhuo Wang Xingjian Wang Yangzhu Wang Yongjun Wang Zhen Wang Jinzhong Wei Ruixuan Wei Xingxing Wei Zhijin Wen Aiguo Wu Hao Wu Huaining Wu Ligang Wu Lirong Wu Min Wu Shufan Wu Wenqi Wu Zhengguang Wu Yuanxin Wu Yuanqing Xia Bin Xian Jin Xiao Guangming Xie Lirong Xie Shaorong Xie Yongchun Xie Hui Xiong De Xu

Shengyuan Xu Xin Xu Yang Xu Bin Xu Chao Xu Jianru Xue Liang Yan Zhaoxu Yang Hao Yang Liang Yang Ming Yang Qinmin Yang Chunhua Yang Yu Yao Peng Yi Jianqiang Yi Ce Yu Xiang Yu Yuanjin Yu Ziquan Yu Wenwu Yu Junzhi Yu Wanmai Yuan Xiheng Zang Zhigang Zeng Zhengyong Zhan Chenghui Zhang Fan Zhang Fubiao Zhang Hui Zhang Jian Zhang Ke Zhang Kezhi Zhang Tao Zhang **Tingting Zhang** Wei Zhang Wenan Zhang

Yonggang Zhang Weiguo Zhang Biao Zhao Jiang Zhao Jingzhou Zhao Qianchuan Zhao Xudong Zhao Yaniie Zhao Yifei Zhao Yuxin Zhao Yunbo Zhao Zhenyu Zhao Ziyang Zhen Jianhua Zheng Shiqiang Zheng Zewei Zheng Zheng Zheng Maiying Zhong Yisheng Zhong Bin Zhou Dapeng Zhou Qingrui Zhou Rui Zhou Shaolei Zhou Xinxiu Zhou Yu Zhou Zhong Zhou Bo Zhu Jihong Zhu Jiaqiang Zhu Liang Zhu Xueyao Zhu Xiaoping Zhu Qun Zong Zhiqiang Zuo ZongYu Zuo

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Di Liu Xiaochao Liu Yunxiao Lv Zhaowei Ma Jun Mao Rui Mou Yifeng Niu Ying Sun Yongbin Sun Renlin Tang	Huan Wa Maosong Siyuan V Xiangke Chen We Jiang We Xiaojia 2 Dingban Liang Ya Jianglong	Xiang Yu Yangguang Yu Yuwei Zhang Dongming Zhao Jiang Zhao Yongbin Zheng Chao Zhou Yukai Zhu					
	Award Comm	ittee Chairs					
Yanming Fan	Bin Jiang	Hong Qiao	Youmin Zhang				
	Editorial and Pu	ublicity Chairs	5				
Yimin Deng	Xiaoshan Gao	Liang Yan	Xiang Yu				
Publication Chairs							
Mou Chen	Feihong Jiang	Jianzhong Qiao	Dayi Wang				
	Exhibit	Chairs					
Yirui Cong	Xuan Li	Di Liu	Yuwei Zhang				
	Poster Sessi	on Chairs					
Zhaowei Ma	Zhuo Wang	Yongbin Zheng	Chao Zhou				
	Regisreatio	on Chairs					
Xiaochao Liu	Siyuan Wang	Jiang Wu	Yukai Zhu				
	Finance	Chairs					
Yin	g Sun Shulan V	Wang Che	en Wei				
	Local C	Chairs					
Xiaofeng He	Deyuan Liu	Yifeng Niu	Yongbin Sun				

ICGNC 2024 Conference Introduction 大会介绍

The 2024 International Conference on Guidance, Navigation and Control (ICGNC 2024) will be held in Chanagsha on August 9-11, 2024, following the successes of previous ten events. International Conference on Guidance, Navigation and Control (ICGNC) is a biennial event, which is also one of the leading events in Guidance, Navigation and Control (GNC). ICGNC 2024 is sponsored by Technical Committee on Guidance, Navigation and Control (TCGNC), Chinese Society of Aeronautics and Astronautics (CSAA), and National Key Laboratory of Aircraft Integrated Flight Control. It is technically co-sponsored by State Key Laboratory of Virtual Reality Technology and Systems, Technical Committee on Navigation, Guidance and Control (TCNGC), Chinese Association of Automation (CAA), Technical Committee on Unmanned Aerial Systems Autonomous Control (TCUASAC), CAA, and Technical Committee on Control Theory (TCCT), CAA, Technical Committee on Robotics Intelligence (TCRI), Education Committee(EC), CAA, and Guidance Navigation and Control Editorial Office. ICGNC 2024 is organized by National University of Defense Technology. The conference consists of plenary speeches, chief designer forum, model teacher forum, young scientist forum, invited sessions, oral sessions and poster sessions for academic exchanges.

继前十届国际导航与控制大会成功举办后,2024 国际导航与控制大会(ICGNC 2024)将 于 2024 年 8 月 9-11 日在长沙举行。导航与控制国际会议(ICGNC)是一项两年一次的活动, 也是导航与控制领域的主要活动之一。ICGNC 2024 由中国航空学会(CSAA)制导、导航与 控制分会(TCGNC)和飞行器一体化控制全国重点实验室共同主办,由虚拟现实技术与系统 全国重点实验室、中国自动化学会(CAA)导航制导与控制专业委员会(TCNGC)、无人飞行 器自主控制专业委员会(TCUASAC)、控制理论专业委员会(TCCT)、机器人智能专业委员 会(TCRI)、中国自动化学会教育工作委员会和《制导、导航与控制(英文)》编辑部共同协 办,由国防科技大学承办。会议包括大会特邀报告、总师论坛、国家级教学名师论坛、青年科 学家论坛、特邀专题、口头报告专题和张贴海报专题等,以进行学术交流。

I. Conference Venue Information 会场信息

ICGNC 2024 will take place at Changsha International Conference Center located in the conference and exhibition area of the High-speed Railway Exhibition New Town in Changsha, to the east of the Liuyang River, south of Laodong Road, and north of the Central Axis Avenue, close to the Changsha International Convention and Exhibition Center, and facing the Changsha South Railway Station across the river.

长沙国际会议中心位于长沙市高铁会展新城会议会展片区,浏阳河以东、劳 动路以南、中轴大道以北,紧邻长沙国际会展中心,与长沙火车南站隔河相望。



图 1 Location of the host venue 大会主会场的位置



图 2 Registration Area on 1st Floor Map of Eastern Etiquette Hall 大会签到位置 1F 东礼仪大厅







图 4 The 3rd Plan Map of Changsha International Conference Center 长沙国际会议中心 3 层平面图

II. 交通信息

A、长沙黄花国际机场:

(1) 出租车: 25 分钟到达。

(2)乘坐机场磁悬浮快线至磁浮高铁站,再乘坐地铁 2 号线和 4 号线至光达站, 从 4 号口出站穿过国展路地下通道步行 300 米到达。

B、长沙高铁南站:可步行至地铁站,乘坐2号线、4号线至光达站,从4号口出站穿过国展路地下通道步行300米到达。

C、高速:紧邻京港澳高速、长株高速、绕城高速、机场高速环绕,距离雨花互通口5公里,车程约8分钟。

D、地铁:乘坐2号线、4号至光达站,从4号口出站穿过国展路地下通道步行300米到达。



图 5 Changsha International Conference Center Location 长沙国际会议中心地理位置

III. 住宿信息

地点目的地	主会场	地铁站 (光达)	长沙南站	黄花机场	长沙站
长沙国际会议中心 (主会场)	/	400m	4km	18km	14km
长沙施柏阁大观酒店	80m	500m	4km	18km	14km
长沙环球融创施柏阁 酒店	80m	500m	4km	18km	14km
长沙会展诺富特酒店	320m	150m	3.6km	18km	13km
长沙国际会展中心宜 必思尚品酒店	320m	150m	3.6km	18km	13km



图 6 大会主会场与分流酒店位置地图

IV. 其他信息

时区

UTC/GMT +8

天气

长沙是一个气候温和、降水充沛、雨热同期、四季分明的城市,适合旅游。

有关天气更新,	请访问	https://www	w.tianqi.com/	changsha/
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Climate	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug	Sep.	Oct.	Nov	Dec.
Daily highs(℃)	13	12	18	24	28	31	35	34	30	25	20	14
Daily lows(℃)	2	4	9	14	18	22	26	25	22	15	10	3
Precipitation(mm)	37	59	86	91	133	183	166	87	46	35	44	41

货币兑换

人 民 币 是 流 通 中 的 法 定 货 币 。 官 方 货 币 汇 率 见 http://www.boc.cn/sourcedb/whpj/enindex.html (全国范围适用)。除机场(24 小时) 和顶级酒店(通常为4星至5星)提供货币兑换服务外,周一至周五,中国银行 和其他主要银行的所有分行都提供货币兑换服务。

旅游信息

长沙市是首批国家历史文化名城,历经三千年城名、城址不变,有"屈贾之 乡""楚汉名城""潇湘洙泗"之称。拥有马王堆汉墓、四羊方尊、三国吴简、岳麓 书院、铜官窑等历史遗迹。凝练出"经世致用、兼收并蓄"的湖湘文化。既是清末 维新运动和旧民主主义革命策源地之一,又是新民主主义的发祥地之一。走出了 黄兴、蔡锷、刘少奇等名人。长沙是全国"两型社会"综合配套改革试验区、中国 重要的粮食生产基地,长江中游城市群和长江经济带重要的节点城市,综合交通 枢纽和国家物流枢纽。

长沙市是中国(大陆)国际形象最佳城市、东亚文化之都、世界"媒体艺术之都"。拥有杂交水稻育种、"天河"超级计算机、国内首台 3D 烧结打印机等科研成果。有岳麓山、橘子洲、湖南省博物馆、花明楼、世界之窗、天心阁、杜甫江阁等著名景点。

欲了解更多信息,请访问

https://www.travelchinaguide.com/cityguides/hunan/changsha/

紧急情况

拨打 110 接通警察, 拨打 119 接通消防/救护车服务。

电力供应

电源为 220 伏, 50Hz。有关详细信息,请访问您当地的旅行商店。

饮用水

建议您饮用开水或瓶装水。

V. 联系信息

程序委员会秘书处

唐仁林,北京航空航天大学

电话: +86-10-82317318

手机: +86-13621186338

电子邮件: icgnc_gncc@126.com

组织委员会秘书处

丛一睿,国防科技大学

手机: +86-13777831526

电子邮件: icgnc2024@163.com

VI. 会议安排总览

GNC 国家级教学名师论坛

2024 年 8 月 9 日 (周五): 09:00-11:30 GNC 青年科学家论坛

2024年8月9日(周五): 14:00-17:15

大会开幕式

2024年8月10日(周六):08:30-08:50 大会报告 2024年8月10日(周六):08:50-11:50 2024年8月11日(周日):08:30-09:50

GNC 总师论坛

2024年8月11日(周日):10:10-11:50

分会场论坛口头报告

2024 年 8 月 10 日 (周六):	13:30-15:30	15:50-17:50
第 1-10 组 A、B	13:30-15:30	15:50-17:50
优秀论文评选(第 12 组	A) 13:30-17	7:00
2024年8月11日(周日):		

第 1-10 组 A、B 13:30-15:30 15:50-17:50 张贴海报

2024年8月10日(周六): 第11组A、B 13:30-15:30 15:50-17:50 优秀 Poster 评选(第11组A) 13:30-15:30
2024年8月11日(周日): 第11组A、B 13:30-15:30 15:50-17:50

口头报告与张贴报告要求

Instruction for Oral and Poster Presentations

Oral Presentation:

- Oral Presentation Time: 8 minutes (except 10 minutes for Best Paper session).
- Each speaker is required to meet his/her session chairs in the corresponding session rooms 10 minutes before the session starts and copy the slide file (PPT or PDF) to the computer.
- Please note that each session room will be equipped with a LCD projector, screen and a laptop or desktop computer with general presentation software such as Microsoft PowerPoint and Adobe Reader preinstalled. Please make sure that your files are compatible and readable with our operation system by using commonly used fonts and symbols. If you plan to use your own computer, please test the connection and make sure it works before your presentation.

Poster Presentation:

- The size of poster paper is suggested to be 0.9m in width and 1.5m in height. The boards will be arranged in order of the paper in the final program. Tape and other materials will be provided on site, and volunteer-assistants will give necessary help. Posters are required to be condensed and attractive. The characters should be large enough so that they are visible from 1 meter apart.
- Please note that during your poster session, the author should stay by your poster paper to explain and discuss your paper with visiting delegates.

2024 国际制导、导航与控制学术会议程序一览表

ICGNC 2024 Technical Program, Thursday, August 8, 2024					
14:00-20:00 1 st Floor, Changsha International Com 注册/ Regis	ference Center (长沙国际会议中心 一层大堂)				
41.//// Kcgis					
ICGNC 2024 Technical Progra	am, Friday, August 9, 2024				
08:30-22:00 1st Floor, Changsha International Conference Ce	enter (长沙国际会议中心 一层大堂) 注册/Registration				
09:00-11:30 Room Xingsha Hall 01, 3 rd Floor (长沙国际会议中心	3 层 星沙庁 01) (Chair: Tao Zhang 张涛 Tsinghua University)				
GNC National-level Model Teacher Forum(GNC 国家级教学名师论坛): Innovation and Practice of GNC Education (GNC 教育创新与实践)				
09:00-09:50 Shangchun Fan 樊尚春 Beihang University Establishing a Profe	ssional Course Ecosystem to Facilitate Outstanding Individual Achievement				
09:50-10:40 Hong Wang 王红 Tsinghua University The Application and	Exploration of AI in Digital Education				
10:40-11:30 Chenghui Zhang 张承慧 Shandong University The Construction an	d Practice of an International, Diversified, and Intelligent Cultivating System for				
Innovative Talents in	n Automation Majors				
12:00-13:30 Room Xingsha Hall 02+03, 3 rd Floor (长沙国	国际会议中心 3 层 星沙厅 02+03) 自助午餐/Lunch				
14:00-17:15 Room Xingsha Hall 01, 3 rd Floor (长沙国际会议中心 3 层 星沙厅 GNC Young Scientist Forum (GNC 青年科学家论坛): Fn	01) (Chair: Bin Jiang 姜斌 Nanjing University of Aeronautics and Astronautics) rontiering Technologies in GNC (GNC 领域前沿技术)				
14:00-14:25 Cailian Chen 陈彩莲 Shanghai Jiao Tong University	Large-scale Time Sensitive Networking for Smart Aircraft Assembly and Testing				
14:25-14:50 Jinliang Ding 丁进良 Northeastern University	Control and Optimization of process Industries in the AI Era: Driven by Demand to Promote Intelligent Transformation				
14:50-15:15 Zhunga Liu 刘准钆 Northwestern Polytechnical University	Multi-source Information Fusion for Target Recognition and Tracking				
15:15-15:40 Jun Luo 罗均 Chongqing University	Navigation and Perception Technologies and Applications for Intelligent Unmanned Systems in Complex Scenarios				
15:40-16:00 茶歇 Tea Break					
16:00-16:25 Zehui Mao 冒泽慧 Nanjing University of Aeronautics and Astronautics Collaborative Fault Diagnosis and Fault-Tolerant Control Technologies for Swarm Unmanned Systems					
16:25-16:50 Xin Xu 徐昕 National University of Defense Technology Highly-Efficient Autonomous Learning for Intelligent Robots					
16:50-17:15 Bin Zhou 周彬 Harbin Institute of Technology Recent Developments on Prescribed-Time Control by Periodic Delayed Feedback					
18:00-20:00 Room Xingsha Hall 02+03, 3 rd Floor (长沙国	国际会议中心 3 层 星沙厅 02+03) 自助晚餐/Dinner				
20:30-22:00 Room Xingsha Hall 01, 3 rd Flo	or (长沙国际会议中心 3 层 星沙厅 01)				
TCGNC Member Meeting, CSAA					
(中国航空学会制导、导航与控制分会委员(含青年委员)工作会议)					

ICGNC 2024 Technical Program, Saturday, August 10, 2024												
08:30-08:50 Room Xingsha Hall 05+06, 3 rd Floor (长沙国际会议中心 3 层 星沙厅 05+06) (Chair:)												
大会开幕式&GNC 国际期刊优秀论文颁奖/Opening Ceremony & GNC Best Paper Award Ceremony												
08:50-11:50 Room Xingsha Hall 05+06, 3 rd Floor (长沙国际会议中心 3 层 星沙厅 05+06)												
Plenary Speech I (大会报告 I) (Chair: Jinhu Lv 吕金虎) 08:50-09:30 Jiancheng Fang 房建成 中国科学院院士 Beihang University Ultra-high Sensitivity Extremely-weak Magnetic Field Science an Technology Infrastructure and Its Applications												
Plenary Speech II (大会报告 II)(Chair: Yanming Fan 范彦铭)												
09:30-10:10 Qifeng Yu 于起峰 中国科学院院士 National University of Defense Technology Aerospace Visual Navigation Technology and Applications												
10:10-10:30 茶歇												
Plenary Speech III (大会报告 III) (Chair: Bin Jiang 姜斌) 10:30-11:10 Weihua Gui 桂卫华 中国工程院院士 Central South University Plenary Speech IV (大会报告 IV) (Chair: Shaoping Wang 王少萍) Exploration and Reflection on Aircraft All-Electric Brake Control Technology												
11:10-11:50 Andrey Polyakov Research director Inria Centre of the University of Lille (France) Homogeneity in Quadrotor Control												
	ard El	12:00-13:30 Room 2	Xingsha Hall 02+03 (长社		星沙厅 02+03) 自助午餐	ř/Lunch	Ord El.					
	3 ¹⁴ Floor Room 305 3 层会议室 305	3 ¹⁴ Floor Room 306 3 层会议室 306	3 ¹⁴ Floor Room 307 3 层会议室 307	3 ¹⁴ Floor Room 309 3 层会议室 309	3 ¹⁴ Floor Room 310 3 层会议室 310	3 ¹⁴ Floor Aisle 3 层廊厅	3 rd Floor Room 314 3 层会议室 314					
	SatA1	SatA2	SatA3	SatA4	SatA5							
13:30-	Cooperative GNC	Collaborative GNC	Swarm GNC	Confrontation GNC	Optimization GNC							
15:30	3 ¹⁴ Floor Room 311 3 层会议室 311	3 ¹⁴ Floor Room 312 3 层会议室 312	3 ¹⁴ Floor Room 313 3 层会议室 313	3 ¹⁴ Floor Room VIP 01 3 层会议室 VIP 01	3 ¹⁴ Floor Room VIP 02 3 层会议室 VIP 02	SatA11 Poster Session 1						
	SatA6	SatA7	SatA8	SatA9	SatA10							
	Knowledge-driven GNC	Safety GNC	Aerospace GNC	Recognition GNC	Precision GNC							
15:30-15:50 茶歇/Tea Break 13:30-17:00												
	3 rd Floor	3 rd Floor	3 rd Floor	3 rd Floor	3 rd Floor	3 rd Floor	SatA12					
	Room 305 3 层会议室 305	Room 306 3 层会议室 306	Room 307 3 层会议室 307	Room 309 3 层会议室 309	Room 310 3 层会议室 310	Aisle 3 层廊厅	Best Paper					
	SatB1	SatB2	SatB3	SatB4	SatB5							
15:50-	Learning GNC	Planning GNC	Dynamic GNC	Formation GNC	Modelling GNC							
17:50	5 ¹⁴ Floor Room 311 3 层会议室 311	3 ¹⁴ Floor Room 312 3 层会议室 312	3 ¹⁴ Floor Room 313 3 层会议室 313	S ¹⁴ Floor Room VIP 01 3 层会议室 VIP 01	3 ¹⁰ Floor Room VIP 02 3 层会议室 VIP 02	SatB11 Poster Session 2						
	SatB6	SatB7	SatB8	SatB9	SatB10							
	Reliable GNC	Fusion GNC	Robust GNC	Multi-agent GNC	Hybrid GNC							
18:30-21:30 Room Xingsha Hall 05+06 (长沙国际会议中心 3 层 星沙厅 05+06) 晚宴 & ICGNC2024 Best Paper Awards 颁奖												

ICGNC 2024 Technical Program, Sunday, August 11, 2024												
08:30-09:50 Room Xingsha Hall 05+06, 3 rd Floor (长沙国际会议中心 3 层 星沙厅 05+06)												
Plenary Speech V(大会报告 V)(Chair: Dayi Wang 王大轶)												
08:30-09:10 Yaonan Wang 王耀南 中国工程院院士 Hunan University Perception, Control and Development Trend of Intelligent Unmanned Systems												
Plenary Speech VI (大会报告 VI) (Chair: Zhaoxu Yang 杨朝旭)												
09:10-09:50 Zongxia Jiao 焦示夏 中国上程院院士 National Key Laboratory of Aircraft Integrated Flight Control Orinithopter Vector Control by Micro-Motion Mechanism												
09:50-10:10 茶歇												
10:10-11:50 Room Xingsha Hall 05+06, 3rd Floor (长沙国际会议中心 3 层 星沙厅 05+06) (Chairs: Yingxun Wang 王英勋 Beihang University)												
GNC Chief Designer Forum (GNC 总师论坛): The Know-how of GNC in X Engineering Practice												
10:10-10:20 Yong Chen 陈勇 Commercial Aircraft Corporation of China Current Status and Trends of Commercial Aircraft Navigation Control Systems												
Research on Key Technologies for Autonomous Take-off and Landing of												
10:20-10:30) weiping Yang 彻上半 AV	VIC Al'an Flight Automatic	Aircraft	-	· · · · ·							
Development Statues and Prospects of Rotary Modulation Optical Inertia												
10:30-10:40	JAin Zneng 和辛 China A	erospace Science & Indust	Navigation for Mis	Navigation for Missiles								
10:40-11:50 Interactive Discussion 互动交流												
12:00-13:30 Room Xingsha Hall 02+03, 3rd Floor (长沙国际会议中心 3 层 星沙厅 02+03) 自助午餐/Lunch												
	3 rd Floor	3 rd Floor	3 rd Floor	3 rd Floor	3 rd Floor	3 rd Floor						
	Koom 505 3 层会议室 305	Room 506 3 层会议室 306	Room 307 3 层会议室 307	Room 309 3 层会议室 309	Room 310 3 层会议室 310	Alsie 3 层廊厅						
	SunA1	SunA2	SunA3	SunA4	SunA5							
13:30-	Hybrid GNCl	Smart GNC	Unmanned GNC	Positioning GNC	Automatic GNC							
15:30	3 rd Floor Deem 311	3 rd Floor	3 rd Floor	3 rd Floor	3 rd Floor	SunA11						
	3 层会议室 311	3 层会议室 312	3 层会议室 313	3 层会议室 VIP 01	3 层会议室 VIP 02	Poster Session 1						
	SunA6	SunA7	SunA8	SunA9	SunA10							
	Cognition GNC	Reinforcement GNC	Pattern GNC	Cross-domain GNC	Identification GNC							
			15:30-15:50 茶	歇/Tea Break								
	3 rd Floor Boom 205	3 rd Floor Boom 206	3 rd Floor Boom 207	3 rd Floor Boom 200	3 rd Floor Boom 210	3 rd Floor						
	3 层会议室 305	3 层会议室 306	3 层会议室 307	3 层会议室 309	3 层会议室 310	Alsie 3 层廊厅						
	SunB1	SunB2	SunB3	SunB4	SunB5							
15:50-	Evolution GNC	Flight GNC	Vision GNC	Perception GNC	Intelligent GNC	-						
17:50	3 ^{ra} Floor Room 311	3 ^{ra} Floor Room 312	3 ^{ra} Floor Room 313	3 ^{ra} Floor Room VIP 01	3 ^{ra} Floor Room VIP 02	SunB11						
	3 层会议室 311	3 层会议室 312	3 层会议室 313	3 层会议室 VIP 01	3 层会议室 VIP 02	Poster Session 2						
	SunB6	SunB7	SunB8	SunB9	SunB10							
	Aircraft GNC	Classic GNC	Advanced GNC	Autonomous GNC	Novel GNC							
18:00-20:00 Room Xingsha Hall 02+03, 3rd Floor (长沙国际会议中心 3 层 星沙厅 02+03) 自助晚餐/Dinner												

大会报告 (Plenary Speeches)

大会报告 I (Plenary Speech I)

Time: 08:50-09:30, August 10, 2024 Venue: Room Xingsha Hall 05+06, 3rd Floor (长沙国际会议中心 3 层 星沙厅 05+06) Chair: Jinhu Lv 吕金虎

Ultra-high Sensitivity Extremely-weak Magnetic Field Science and Technology Infrastructure and Its Applications

Professor Jiancheng Fang 房建成 Academician of Chinese Academy of Sciences Beihang University

Abstract

Using ultra-sensitive and extremely-weak magnetic field and inertial measurement technology, we will build a large scientific facility for extremely-weak magnetic fields, creating the highest performance and largest "zero magnetic" space to provide extreme weak magnetic environments and extreme measurement methods. Once completed, it will maintain China's leading advantage in ultra-sensitive and extremely-weak magnetic field and inertial measurement technology, while simultaneously fostering the development of large scientific facilities for Earth's magnetic field. Facing the world's scientific frontiers, national major needs, economic main battlefield, and people's health, the team will rely on this large-scale scientific facility to carry out technology achievement transformation and its applications.



Jiancheng Fang, an Academician of the Chinese Academy of Sciences, is a professor and director of the Academic Committee at Beihang University. He also serves as the chief designer and scientist for the Hangzhou Extremely-Weak Magnetic Field National Major Science and Technology Infrastructure.

He has long engaged in research on inertial positioning and navigation, quantum precision measurement and sensing, and Extremely-weak magnetic field measurement and its medical

applications. He has led projects that have won one first-class and one second-class National Technological Invention Awards, one second-class National Science and Technology Progress Award, and three second-class National Teaching Achievement Awards. Fang has been honored with the first National Defense Science and Technology Industry Outstanding Talent Award, the National Outstanding Professional Technical Talent title, and the Ho Leung Ho Lee Foundation Science and Technology Achievement Award.

大会报告 II (Plenary Speech II)

Time: 09:30-10:10, August 10, 2024 Venue: Room Xingsha Hall 05+06, 3rd Floor (长沙国际会议中心 3 层 星沙厅 05+06) Chair: Yanming Fan 范彦铭

Aerospace Visual Navigation Technology and Applications

Professor Qifeng Yu 于起峰

Academician of Chinese Academy of Sciences National University of Defense Technology

Abstract

In the ever-evolving aerospace domain, aerospace visual navigation technology is pioneering a new era of autonomous operation and space exploration with its distinct advantages. In this presentation, we will discuss three main research topics of our group, namely aircraft visual navigation and localization, spacecraft pose estimation, and visual guidance for landing. Recent advancements and potential applications in the field will be comprehensively introduced. 1) Aircraft visual navigation and localization technology enables autonomous navigation and precise location through heterogeneous image matching and target recognition, facilitating the operation of aircraft in complex environments. 2) The technology for estimating the relative pose of space objects ensures the accuracy and reliability of space maneuvers by accurately calculating the relative position and orientation between the camera and the target. We will introduce its applications, including satellite docking, extravehicular activities of astronauts, and lunar sample collection. 3) The visual guidance technology for landing utilizes an onboard camera to achieve autonomous and automatic landing tasks for aircraft.



Qifeng Yu is an Academician of the Chinese Academy of Sciences. He received his B.Eng. degree in Department of Aircraft Engineering in Northwestern Polytechnical University and the M.Eng. Degree in College of Aerospace Science and Engineering from National University of Defense Technology, Ph.D. in Precision Photomechanics from the University of Bremen in Germany in 1981, 1984 and 1995 respectively. Since 1991, he has been a Full

Professor at National University of Defense Technology. Currently, he serves as the Deputy Director of the Science and Technology Committee of the National University of Defense Technology. He currently holds positions such as Special Director of the Chinese Society of Theoretical and Applied Mechanics, Executive Director of the Chinese Society for Optical Engineering, Deputy Editor-in-Chief of Acta Mechanica Sinica (English Edition), and Director of the Hunan Provincial Key Laboratory of Image Measurement and Visual Navigation. Yu Qifeng has led and completed the National Defense 973 Project and several national major equipment development projects, achieving significant theoretical innovations and national defense applications. He pioneered the emerging interdisciplinary field of camera measurement in China and has accomplished several key equipment tests. He has received one second prize of the National Technological Invention Award, the Hunan Provincial Natural Science First Prize, the Hunan Provincial Technological Invention First Prize, and ten other provincial and ministerial-level awards. Yu Qifeng has published three monographs, over 300 academic papers, and holds more than 80 invention patents.
大会报告 III (Plenary Speech III)

Time: 10:30-11:10, August 10, 2024 Venue: Room Xingsha Hall 05+06, 3rd Floor (长沙国际会议中心 3 层 星沙厅 05+06) Chair: Bin Jiang 姜斌

Exploration and Reflection on Aircraft All-Electric Brake Control Technology

Professor Weihua Gui 桂卫华

Academician of Chinese Academy of Engineering Central South University

Abstract

With the implementation of the national "dual carbon" strategy and the development of international green aviation concepts, the design concept of civil aircraft is undergoing transformation and upgrading from "weight reduction and drag reduction" to "energy conservation, emission reduction, noise reduction, circulation, and health". Electric aviation is one of the important ways to achieve high-end, intelligent, and green development in the aviation industry. As a key core equipment to ensure the safety of aircraft landing, takeoff, taxiing, and braking, the all electric braking system has the advantages of high safety, strong reliability, good dynamic performance, and easy maintenance. The related key technologies are one of the main development directions for domestic large aircraft in the future. Currently, aircraft have higher requirements for safety and comfort, and the service environment is more complex, posing greater challenges to the reliability of anti-skid brake control and adaptability to complex environments. This report mainly introduces the key technology research and prospects of aircraft electric braking systems. The modeling of an all-electric brake system, high reliability anti-skid control and optimization, efficient collaborative turning of multiple wheels, development of experimental platforms, and other key technologies are elaborately introduced combined with the research results of our team. Finally, prospects and reflections on the future development trends of all-electric brake systems are presented.



Weihua Gui is an Academician of the Chinese Academy of Engineering. He received his the B.Eng. degree in Electrical Engineering and the M.Eng. Degree in Industrial Automation from Central South Institute of Mining and Metallurgy, P. R. China, in 1976 and 1981, respectively. From 1986 to 1988 he was a Visiting Scholar at Universität-GH-Duisburg, Germany. Since 1991, he has been a Full Professor at Central South University. He was the director of the Academic Committee of Central South University, director of the Engineering Research Center for Nonferrous Metallurgical Automation of the Ministry of Education, Vice Chairman of the Chinese Association of Automation (CAA), Vice Chairman of the Nonferrous Metals Society of China

(NFSOC), and Chairman of the Process Control Professional Committee of CAA. His main research interests include intelligent control systems and their applications. He has won three Second Prizes of the National Science and Technology Progress Award, one Second Prize of the National

Technological Innovation Award. He is the winner of the Science and Technology Progress Award of the Ho Leung Ho Lee Foundation, National Model in Teaching and Education, National Model Teacher, National Excellent Scientific and Technological Worker, Hunan Guangzhao Science and Technology Award, China Process Control Lifetime Achievement Award, Yang Jiachi Science and Technology Award, etc.

大会报告 IV (Plenary Speech IV)

Time: 11:10-11:50, August 10, 2024 Venue: Room Xingsha Hall 05+06, 3rd Floor (长沙国际会议中心 3 层 星沙厅 05+06) Chair: Shaoping Wang 王少萍

Homogeneity in Quadrotor Control

Professor Andrey Polyakov Inria Centre of the University of Lille, France

Abstract

Homogeneity is an invariance of a mathematical object (e.g., a function or a set) with respect to a class of transformations called dilations. All linear and a lot of essentially nonlinear models of physics are homogeneous (symmetric) in some sense. The dilation symmetry simplifies stability and robustness analysis, controllers and observers design, discretization and digital implementation of nonlinear systems. Homogeneous control systems appear as solutions of various nonlinear problems such as finite/fixed-time stabilization. Despite of an essential non-linearity, homogeneous controllers admit simple tuning rules similar to linear algorithms. Homogeneous control systems are robust with respect to various of uncertainties and disturbances. In this talk, an introduction to homogeneity-based design is going to be presented. We will study a class of homogeneous control systems, which admit a very simple tuning rules based on an upgrade of the already existing/operating linear feedback. This method of the control upgrade is universal and applicable for any control systems governed by linear feedback law. It is theoretically proven and experimentally validated that the homogeneous control may guarantee faster response, smaller overshoot and better robustness than the linear control. In this talk, the method is going to be illustrated on quadrotor control and supported with real experiments.



Andrey Polyakov received his PhD Degree in System Analysis, Control and Information Processing from the Voronezh State University, Russia in 2005. Till 2010 he was an Associate Professor in the same university. From 2007 to 2008 he was a postdoc in CINVESTAV, Mexico. Form 2010 to 2014, Andrey Polyakov was a Leading Researcher of the Institute of Control Sciences of Russian Academy of Sciences. In 2013, he joined the Inria centre of the University

of Lille in France as a researcher. His main research interests include various aspects nonlinear control and estimation. In 2012, he proposed the concept of fixed-time stabilization being rather popular today. Andrey Polyakov is an author of more than 100 journal papers and three books: "Generalized Homogeneity in Systems and Control", "Roadmap for Sliding Mode Control Design", "Attractive Ellipsoids in Robust Control".

大会报告 V (Plenary Speech V)

Time: 08:30-09:10, August 11, 2024 Venue: Room Xingsha Hall 05+06, 3rd Floor (长沙国际会议中心 3 层 星沙厅 05+06) Chair: Dayi Wang 王大轶

Perception, Control and Development Trend of Intelligent Unmanned Systems

Professor Yaonan Wang 王耀南 Academician of Chinese Academy of Engineering Hunan University National Engineering Research Center of RVC

Abstract

With the application of cutting-edge technology in the military domain, intelligent unmanned systems will emerge as the primary equipment for future warfare. Perception and control technology play a pivotal role in enhancing the combat effectiveness of unmanned systems. The report aims to present an overview of the development trend in perception and control technology for intelligent unmanned systems, covering background, significance, research status, challenges and key technologies. The concept, advantages and status of intelligent unmanned systems based on actual combat scenarios are introduced firstly, and the typical examples of unmanned combat equipment across air, land, water and underwater domains are reviewed. Secondly, driven by the challenges faced by intelligent unmanned systems in demanding battlefields such as complex environment, intense confrontations, real-time response and incomplete information, critical technologies on environment-perception, decision-making, swarm-collaboration and human-computer interaction are elaborated in the report. Finally, the trend of intelligent unmanned systems is summarized and prospected.



Yaonan Wang is an Academician of Chinese Academy of Engineering, and an expert in robotic and intelligence control. He is serving as a professor of Hunan University and the director of National Engineering Research Center of RVC. He is currently a member of China Association for Science and Technology, the President of China Society of Image and Graphics, a CAA Fellow (Chinese Association of Automation), a CCF Fellow (Chinese Computer Federation Fellow) and a CAAI Fellow (Chinese Association for Artificial Intelligence Fellow), the vice chairman of the council of China Artificial Intelligence Robot Industry Alliance, a member of the Expert Advisory Committee of the National Natural Science

Foundation of China, a standing director of CAA, a supervisor of CAAI, a member of the executive committee of Artificial Intelligence and Block Chain Technology in Ministry of Education, and the chairman of the council of Hunan Association of Automation. He was the specialist in intelligent robot area of "863 Plan", and the chief scientist of EU Fifth Framework International Cooperation Major Project. He has long been engaged in research and teaching work of robot perception, control

technology and engineering application. He won 1 second prize of the National Technological Invention Award, 4 second prizes of the National Science and Technology Progress Award, and 12 first prizes of the provincial/ministerial level award. Moreover, he has published more than 200 papers indexed by SCI, published 15 scientific books, obtained more than 90 invention parents, and cultivated more than 80 doctoral students. He has won the national millions of talent project, outstanding humboldt scholar, the honorary titles of outstanding backbone teachers of national colleges and universities, national May 1st labor medal, national advanced worker, national innovation competition award, and advanced individual in the construction of national teaching materials.

大会报告 VI (Plenary Speech VI)

Time: 09:10-09:50, August 11, 2024 Venue: Room Xingsha Hall 05+06, 3rd Floor (长沙国际会议中心 3 层 星沙厅 05+06) Chair: Zhaoxu Yang 杨朝旭

Orinithopter Vector Control by Micro-Motion Mechanism

Professor Zongxia Jiao 焦宗夏 Academician of Chinese Academy of Engineering National Key Laboratory of Aircraft Integrated Flight Control, BUAA

Abstract

Flapping wings generate propulsion, lift and control forces simultaneously, acting as a periodic vector generator. Birds, insects, have achieved enviable flight efficiency and maneuverability through this flap-generated vector, which is completely different from traditional aircraft that relies on control surfaces deflection. In this talk, typical mechanisms and control methods of artificial flapping-wing aircraft will be analyzed, followed by our recent research progress in the aerodynamic design, flapping mechanism, servo control, etc. of long-endurance large-scale flapping-wing aircraft and small sparrow flapping-wing aircraft, as well as relative applications in military and civilian fields.



Zongxia Jiao, Academician of Chinese Academy of Engineering. Obtained his doctoral degree from Zhejiang University in 1991 and served as a visiting professor at Hamburg University of Technology in Germany in 2000. He is currently a professor at the School of Automation Science and Electrical Engineering, Beihang University, and holds the position of Chief Professor of Mechatronic Engineering. He is also the Director of the Beihang Innovation Center for Aviation airborne system and the Dean of Beihang Ningbo Innovation Research Institute. He is the Executive Director and Director of the Fluid Control Branch of the Chinese Society of Mechanical

Engineering, as well as the Executive Director and Honorary Director of the Electromechanical Branch of the Chinese Society of Aeronautics and Astronautics. He has been engaged in research on aircraft electromechanical systems and flight control systems, and has achieved multiple original results in the areas of electro-hydraulic control theory and core components/devices. He has made great progresses in field of high-reliability hydraulic systems, servo actuators, high-safety aircraft brakes. He has been awarded 2 second-class National Technical Invention Awards, 1 second-class National Science and Technology Progress Award, and 3 first-class Ministerial and Provincial-Level Science and Technology Awards (all ranked first). He has been granted more than 80 invention patents, published over 400 papers, and has been cited over 3000 times in SCI. He has been selected as a highly cited scholar by Clarivate Analytics for four consecutive years. He was awarded the Ho Leung Ho Lee Foundation Science and Technology Progress Award in 2016 and the National Innovation Medal in 2020.

总师论坛

Chief Designer Forum

Subject(X)=GNC 在 X 工程实践中的诀窍

(X∈航空 or 航天 or 航海)

Subject (X)=The Know-how of GNC in X Engineering Practice

 $(x \in Aeronautics or Astronautics or Marine)$

Time: 10:10-11:50, August 11, 2024 Venue: Room Xingsha Hall 05+06, 3rd Floor (长沙国际会议中心 3 层 星沙厅 05+06)

Chair: Yingxun Wang 王英勋

制导、导航与控制(Guidance, Navigation and Control, GNC)作为核心中枢,在航空、航天、 航海等领域发挥重要作用,并有着广阔的发展前景。本论坛邀请来自于航空、航天、航海领 域的5位知名总师将分享他们在各领域中有关GNC在典型工程中问题的解决之道,即有效解决 某问题的诀窍,可能只是捅破一层窗户纸。来自一线总师们的倾情讲述和与现场互动,将向 大家揭示GNC工程创新中蕴含的哲学和科学道理。

Guidance, Navigation and Control (GNC) is the key technology for movement objects applied in aeronautics, astronautics, and marine. This forum invites five well-known Chief Designers from the fields of aeronautics, astronautics, and marine to share their good ideas to effectively solve any typical engineering and technical problems related to GNC in their research field. The wonderful presentation and on-site interaction of the front-line Chief Designers will reveal the philosophy and scientific principle contained in the GNC engineering innovation.

About the Chair Professor Yingxun Wang 王英勋

Beihang University, China



Yingxun Wang is a professor and doctoral supervisor in Beihang University, Beijing, China. He is the council member of China Society of Aeronautics and Astronautics, the director of UAV system professional group in China AOPA UAV professional committee, and the appointed representative of UAV driver. He used to be director of UAV Office in Aviation Industry Corporation of China (AVIC). He is engaged in autonomous control of UAV, key model development and project management, and served as the deputy chief designer and chief designer. He has obtained IPMP senior project manager qualification and INCOSE Certified System Engineer lecturer. He won the first prize of national science and technology progress (R3), the

outstanding young engineer of Beijing, the pacesetter of economic and technological innovation of Beijing, and the gold medal of AVIC.

Current Status and Trends of Commercial Aircraft Navigation Control Systems

Yong Chen 陈勇 Commercial Aircraft Corporation of China, Ltd.

Abstract

As a core technology product in the civil aviation market, jet airliners are not only the key to open the global aircraft market, but also an important business card that reflects the economic and technological strength of a major country. This report reviews the development history of domestic jet airliners. Taking ARJ21 as an example, it elaborates on the navigation control system of jet airliners and introduces the development and derivative types of ARJ21 from the perspective of the entire life cycle. Then, combined with the future development requirements of commercial aircraft, the future technical development direction of jet airliners is discussed, including supersonic passenger aircraft, electric flight, single-pilot, unmanned driving, prediction and health management, visual navigation technology, etc., laying the foundation for the occupation of the future competitive track of jet airliners.



Yong Chen, Chief Designer of ARJ21 Aircraft, graduated from Northwestern Polytechnical University in 1988 with a major in aircraft design. He worked in Xi'an Aircraft Design Institute and Shanghai Aircraft Design Institute (later Shanghai Aircraft Design Research Institute) and has been engaged in the general aerodynamic design and avionics system design of aircraft. He has been engaged in the development of major national equipment such as JH-7 series, Y-7-200A, KJ-xxxx, and xx projects.

Since 2004, he has been engaged in the design of China's first jet airliner ARJ21 aircraft. He has led the team to work hard for 20 years, and for the first time conquered the design verification of international airworthiness regulations for jet airliners, and for the first time realized the industrialization and serialization of domestic jet airliners, and realized the first step of the three-step development of large aircraft in China. He is one of the pioneers of China's large aircraft industry.

Chen Yong established the technical and airworthiness foundations for the successful development and certification of C919, as well as for the smooth development of C929, and cultivated a team of talents in scientific research, production, and service of large aircraft. He led the team to overcome the difficulties of industrialization and large-scale safe operation of domestic jet airliners, and achieved the annual production capacity of 50 ARJ21 aircraft/each production line, delivered 139 aircraft, operated more than 110 cities and 566 routes. 430,000 hours of safe flight, cumulatively carrying 14.44 million passengers. In particular, it was the first time in China to achieve full coverage operation of Xinjiang, and the world's first jet regional airliner opened up the high-difficulty route of the Taxkorgan Plateau, where is a Higher Plateau Airport. It was the first time that domestic jet airliners were exported overseas, and exported to Indonesia to open the Jakarta-Kuala Lumpur route. It was also the first time that domestic jet airliners were operated overseas, and the China-Russia route and China-Central Asia passenger and cargo routes were opened. At the same time, Chen Yong led the team to overcome the difficulties of serialization and multi-purpose of domestic jet airliners, and successfully developed and certified domestic jet cargo aircraft, jet command aircraft, jet medical aircraft, and jet business aircraft for the first time in China, and is developing the first jet firefighting aircraft. He explored the way forward for the high-quality development of domestic civil aircraft.

Chen Yong won one first prize in the National Science and Technology Progress Award, ranking first. He has won three provincial and ministerial first prizes, all of which ranked first. He has been awarded the title of the first batch of the National Ten Thousand Talents Program, the National May 1st Labor Medal, the Third National Award for Excellence in Innovation Medal, and the First National Engineer Awards.

Research on Key Technologies for Autonomous Take-off and Landing of Large Aircraft

Weiping Yang 杨卫平 AVIC Xi'an Flight Automatic Control Research Institute

Abstract

The construction of smart civil aviation, characterized by the application of new generation information technology, is gradually becoming the leading trend of the new round of aviation development. As one of the key technologies to enhance the autonomy, intelligence and economy of aircraft, the maturity of fully automatic takeoff and landing technology for civil large aircraft is steadily improving. The existing automatic landing of civil aircraft relies on the ground precision guidance system, e.g. ILS/GLS/MLS, which has the problems of high maintenance cost and insufficient autonomy. This report adopts the multi-source information fusion method with vision as the main navigation source, comprehensively utilizes airborne navigation sources such as multi-band cameras, inertial navigation systems, dual-frequency multi-constellation satellite receivers and radio altimeters, proposes an inertial/visual/DFMC/RA multi-source fusion navigation architecture based on distributed fusion, and carries out research on high-performance and robust visual runway detection based on artificial intelligence, INS/DFMC combined navigation design and evaluation, inertial/visual combination and integrity design, RA-assisted vertical navigation enhancement and other methods. It has achieved high-precision, high-integrity, high-safety and high-availability navigation capabilities, provided navigation guidance capability support for fully automatic takeoff and landing, enhanced the safety and operational efficiency of large aircraft, and helped to improve the market competitiveness of domestic large aircraft.



Weiping Yang, born in 1972, a doctor of engineering, a researcher, and graduated from the major of Optoelectronic Engineering at BUAA. He is currently the Director of GNC Industrial Machinery Division, Director of FACRI, Vice President of CSIT, Standing Director of CSAA; Deputy director of GNC Branch, CSAA, Deputy director of Electromechanical, Human & Environmental Engineering Branch, CSAA.

Yang Weiping has achieved independent research and development of aviation navigation systems, making outstanding contributions to aviation navigation guidance and control in China. Yang has won the National Science and

Technology Progress Award four times, Provincial and Ministerial-Level Science and Technology awards fifteen times and published more than 20 papers in journals or conferences.

Development Statues and Prospects of Rotary Modulation Optical Inertial Navigation for Missiles

Xin Zheng 郑辛

China Aerospace Science and Industry Corporation (CASIC)

Abstract

In modern warfare, resisting enemy electronic interference is crucial to victory. How to ensure that all kinds of weapons can hit far and accurately under strong electromagnetic interference, and put forward higher requirements for inertial navigation (INS): On one hand, there is a requirement for higher precision in INS, and on the other, a demand for reduced size and cost, enabling widespread and affordable use across various types of weapons. As the current mainstream autonomous navigation method for various weapons, optical inertial navigation systems must achieve order-of-magnitude improvements in precision while being developed under stringent size and cost constraints. This is a critical consideration in weapons development. This paper introduces the concept of rotary modulation intertial navigation for missiles, addresses the key challenges to be resolved, and discusses its implications for the advancement of weapon technology.



Xin Zheng, Deputy Director of the Scientific and Technological Committee at China Aerospace Science and Industry Corporation (CASIC), serves as the Chief Scientist of the Group and holds a Ph.D. in Engineering. He is the leader of a professional group in specific national industry. With extensive experience in research and engineering practice in inertial navigation technology, he has held key positions as a technical lead for several major inertial navigation models and as a Chief Scientist of the 973 Program.

Xin Zheng has overseen the development and large-scale application of multiple optical inertial navigation systems in China, significantly contributing to national security, development interests, and the advancement of the inertial navigation industry. He has received six National Science and Technology Progress Awards, including one Special Prize, one First Prize, and four Second Prizes. Additionally, he has been selected for the "511 Talent Project" and the "Ten Thousand Talents Program," and has been honored with various accolades such as the "State Council Government Special Allowance," the "National Innovation Excellence Award," and the "Qian Xuesen Outstanding Contribution Award."

GNC 国家级教学名师论坛

GNC National-level Model Teacher Forum

GNC 教育创新与实践 Innovation and Practice of GNC Education Time: 09:00-11:30, August 9, 2024 Venue: Room Xingsha Hall 01, 3rd Floor (长沙国际会议中心 3 层 星沙厅 01)

Chairs: Tao Zhang 张涛

科技创新,教育为本。制导、导航与控制(GNC)学科的创新人才培养是我国在GNC领 域蓬勃发展的重要基础和关键。本届制导、导航与控制教学名师论坛非常荣幸地邀请了来自 国内著名高校的3位国家级教学名师作特邀报告,国家教学名师们将与我们分享现代GNC教育 中的新模式、新理念和新方法,以及他们在教育实践中的宝贵经验和体悟。

Education is to last for the scientific and technological innovation generations. The cultivation of innovative talents in the discipline of guidance, navigation and control (GNC) plays a significant role in the vigorous development of GNC in China. GNC Model Teacher Forum invites three national model teachers to share the innovation patterns, concepts and methodologies in modern GNC education, as well as their valuable experience and understanding in educational practice.

About the Chair

Professor Tao Zhang 张涛

Deputy Dean of School of Information Science and Technology

Head of Department of Automation

Tsinghua University



Tao Zhang, PhD, Professor, Deputy Dean of School of Information Science and Technology, Head of Department of Automation, Tsinghua University. He is a member of Electronic Science and Technology Committee of Ministry of Industry and Information Technology, Invited Expert of Ministry of Science and Technology. He is IEEE/IET/AAIA/CAA Fellow, Member of IFAC Technical Committee of Robotics, AIAA member, Technical Editor of IEEE/ASME Transactions on Mechatronics, Associate Editor of IEEE Transactions on Automation Science and Engineering, Associate Editor of IEEE Robotics and Automation Letters. He is a council member of Chinese Association of Automation, a council member of Chinese Association for

Artificial Intelligence, a council member of China Simulation Federation, director of Education Committee of Chinese Association of Automation, a member of Guidance, Navigation and Control Branch of Chinese Society of Aeronautics and Astronautics. The main research fields are robotics, artificial intelligence, navigation and control, etc. He has presided over or participated in more than 30 research projects, such as national 863 projects, national 973 projects and National Natural Science Foundation. More than 200 papers have been published in the past decade. He has published more than 10 academic monographs, translated works and edited textbooks, and obtained more than 30 domestic authorized invention patents. He has won the National Teaching Achievement award, Graduate Teaching Achievement Award of Chinese Association of Automation, Beijing Teaching Achievement Award, Natural Science Award of Ministry of Education, Beijing Science and Technology Progress Award, Military Science and Technology Progress Award, Natural Science

Award of Chinese Association of Automation and Electronic Information Science and Technology Award of Chinese Institute of Electronics, etc

Establishing a Professional Course Ecosystem to Facilitate Outstanding Individual Achievement

Professor Shangchun Fan 樊尚春 Beihang University

Abstract

In the face of diverse societal demands for professional talents and the personalized requirements of students' individual growth, how can professional teachers leverage their strengths and specialties to timely integrate their experiences and achievements in technological innovation into education? This becomes a crucial issue that must be addressed for the high-quality development of higher education. To this end, the report proposes strategies and measures for establishing a professional course ecosystem. Taking the example of the construction of the course system for instrumentation at Beihang University, the report details the process of refining the core course "Sensor Technology and Applications" to provide students with a rich and high-quality teaching resource practice through the organized progression of the "course chain," "course tree," and "course forest" within the instrumentation course ecosystem. It also briefly introduces the stage achievements in assisting students' individual growth and achieving outstanding individual achievement.



Shangchun Fan is a professor of Instrument Science and Technology, which is a national first-class key discipline at Beihang University, and a doctoral supervisor. He is a recipient of the National "Ten Thousand Talents Program" Teaching Master, Baogang Outstanding Teacher Special Award, Special Allowance from the State Council, and serves as the director at the Key Laboratory of Quantum Sensing Technology under the Ministry of Industry and Information Technology. He is also the leader of the Ministry of Education's "Advanced Sensing Technology in Aerospace" innovation team, director of the school's Teaching Guidance Committee, deputy director of the

Academic Committee, and a core member of the national university Huang Danian-style teacher team.

The course he is responsible for, "Sensor Technology and Applications," is a national-level boutique course, the first batch of national-level boutique resource-sharing courses, the first batch of national-level first-class undergraduate courses (offline), and the first batch of National-level Ideological and Political Education Exemplary Course.

As the first principal investigator, he has won one National Technical Invention Award and one National Scientific and Technological Progress Award. As the second principal investigator, he has won one National Teaching Achievement Award.

The Application and Exploration of AI in Digital Education

Professor Hong Wang 王红 Tsinghua University

Abstract

With the arrival of the AI era, digitalization in higher education is picking up speed, broadening its scope and deepening its impact. Tsinghua University is at the forefront of this transformation, actively incorporating AI into its educational and teaching framework. In the autumn of 2023, the university launched a pilot project involving eight courses. This initiative includes a course managed by a dedicated team that has been delving into the practical applications of AI in the classroom. There is an eagerness to engage with fellow educators in a dialogue about the exciting opportunities and formidable challenges that the AI era brings to pedagogy and academic instruction.



Hong Wang began her teaching career at Tsinghua University in 1995 and has continued to this day. In 2004, she had the opportunity to work as a visiting scholar at the Massachusetts Institute of Technology (MIT).

Her research is focused on the reliability design and fault diagnosis of electronic circuit systems. Pro. Wang has been honored with prizes for the Military Scientific and Technological Progress Award (Class I /II/ III).

Prof. Wang has also received the National Textbook Construction Award(Class II), the National Teaching Achievements(ClassII), the Teaching Achievements in Beijing(Class I), the Baogang Outstanding Teacher Award, and the Fok Ying-Tung Young Teacher Award, among other accolades.

The Construction and Practice of an International, Diversified, and Intelligent Cultivating System for Innovative Talents in Automation Majors

Professor Chenghui Zhang 张承慧 Shandong University

Abstract

As one of the four disruptive technologies in the 21st century, automation has a huge impact on economic and social development and has great future prospects. The new round of scientific and technological revolution and industrial transformation with artificial intelligence as an important driving force has put forward higher goals and requirements for the cultivation of innovative talents, and the development of automation profession is facing greater challenges in the future. School of Control Science and Engineering of Shandong University focuses on "internationalization of professional construction", "diversification of talent cultivating" and "intelligent curriculum system". A unique cultivating model was constructed and formed for new engineering talents in automation majors with the characteristics of Shandong University. It has achieved remarkable results and has been well received by the industry and is known as the "Shanda model". In the past 12 years, it has won the second prize of national teaching achievements for three consecutive years as an independent completion unit. This report focuses on the development process of "internationalization", "diversification" and "intelligence" of automation majors in Shandong University, and discusses the precipitation process and summary experience of national teaching achievements.



Chenghui Zhang is currently a Chair Professor and the dean of the School of Control Science and Engineering in Shandong University. He received a bachelor's degree and a master's degree from Shandong University of Technology in 1985 and 1988 respectively, and worked at Shandong University of Technology to teach from 1988. He received Ph.D. degree in Operations Research and Cybernetics from Shandong University in 2001; In 2007, he was selected as a national candidate for the "New Century Talents Project"; In 2009, he was selected as a "Changjiang Scholar" distinguished professor of the Ministry of Education of the People's Republic of China and a special expert of "Taishan Scholar" of Shandong Province; Since 2018, he has

been the member of Automation Steering Committee of Ministry of Educatioin; In 2019, he is selected as Notional special support program for high-level personnel recruitment; In 2023, he was elected as an IEEE fellow.

GNC 青年科学家论坛

GNC Young Scientist Forum

GNC 领域前沿技术

Frontiering Technologies in GNC Time: 14:00-17:00, August 9, 2024 Venue: Room Xingsha Hall 01, 3rd Floor (长沙国际会议中心 3 层 星沙厅 01)

Chair: Bin Jiang 姜斌

青年是科技创新的主力军,为激发青年科技工作者在GNC领域的创新活力,本届国际会议邀请了10位杰出青年才俊,将围绕GNC学科领域的前沿热点和关键技术展开研讨和切磋,为广大青年科技工作者提供一个科技榜样引领示范和高端的GNC学术交流平台。

Youth is the main force of scientific and technological innovation. In order to stimulate the creativity of young scientist in the field of guidance, navigation and control (GNC), this forum invites ten outstanding young scientists to discuss the research focus of frontier fields and key technologies in the field of GNC, which aiming to provide a scientific and technological example demonstration and a high-level GNC academic exchange platform to the young scientists.

About the Chair

Professor Bin Jiang 姜斌

Nanjing University of Aeronautics and Astronautics



Bin Jiang received the Ph.D. degree in Automatic Control from Northeastern University, Shenyang, China, in 1995. He had ever been postdoctoral fellow, research fellow, invited professor and visiting professor in Singapore, France, USA and Canada, respectively. Now he is a Chair Professor of Cheung Kong Scholar Program in Ministry of Education and President of Nanjing University of Aeronautics and Astronautics, China. He serves as Associate Editor or Editorial Board Member for a number of journals such as IEEE Trans. On Cybernetics; IEEE Trans. On Control Systems Technology, Neurocomputing; Journal of Astronautics, etc. He is a Fellow of IEEE, Chair of Control Systems Chapter in IEEE Nanjing Section, a member of IFAC Technical Committee on

Fault Detection, Supervision, and Safety of Technical Processes. His research interests include fault diagnosis and fault tolerant control and their applications to helicopters, satellites and high-speed trains. He has been the principle investigator on several projects of National Natural Science Foundation of China. He is the author of 8 books and over 100 referred international journal papers papers. He won Second Class Prize of National Natural Science Award of of China in 2018.

Large-scale Time Sensitive Networking for Smart Aircraft Assembly and Testing

Professor Cailian Chen 陈彩莲 Shanghai Jiao Tong University

Abstract

As a new generation of deterministic networking technology, Time-Sensitive Networking (TSN) enables real-time, reliable, and deterministic transmission of heterogeneous data. How to supporting the ubiquitous sensing, real-time decision-making, and collaborative control of all elements in the smart manufacturing, such as automatic aircraft assembly, has become challenging for the large-scale TSN. In this talk, an industrial field-level flat architecture is discussed based on TSN as the backbone network for smart aircraft assembly and testing. The following techniques are presented: dynamic scalable on-demand adaptive transmission for TSN, deterministic mechanism design for industrial wired/wireless cross-network, and TSN system optimization for sensing-transmission-control collaboration. The correlation feature learning scheme and resource pre-allocation strategy are given for process matching to reduce transmission delay and jitter, and improving communication resource utilization efficiency. TSN gateway devices and the testbed are developed to ensure the performance of heterogeneous data transmission, flexible configuration and dynamic networking of multiple devices.



Cailian Chen received the B. Eng. and M. Eng. degrees in Automatic Control from Yanshan University, P. R. China in 2000 and 2002, respectively, and the Ph.D. degree in Control and Systems from City University of Hong Kong, Hong Kong SAR in 2006. She has been with the Department of Automation, Shanghai Jiao Tong University since 2008. She is now a Distinguished Professor. Prof. Chen's research interests include industrial wireless networks and computational intelligence. She has authored 3 research monographs and over 100 referred international journal papers. She is the inventor of more than 30 patents. She was a recipient of the prestigious IEEE Transactions on Fuzzy Systems Outstanding Paper Award, IEEE TCCPS Industrial Technical

Excellence Award, and 5 conference best paper awards. She was awarded N2Women Top Ten Star in Computer Networking and Communications in 2022. She won the Second Prize of National Natural Science Award from the State Council of China in 2018. She was honored "National Outstanding Young Researcher" by NSF of China in 2020, "Changjiang Young Scholar" in 2015 and China Young Women Scientists Award in 2023. She is a Distinguished Lecturer of IEEE VTS. She serves as Deputy Editor of National Science Open, and Associate Editor of IEEE Transactions on Vehicular Technology and IET Cyber-Physical Systems: Theory and Applications.

Control and Optimization of process Industries in the AI Era: Driven by Demand to Promote Intelligent Transformation

Professor Jinliang Ding 丁进良 Northeastern University

Abstract

The control and optimization of process industries in the AI era face enormous challenges. How to meet challenges and achieve the intelligent transformation of control disciplines is a widely concerned issue. From the perspective of the national strategy for intelligent process industry, there is an urgent need for intelligent upgrading and transformation in control and optimization. Driven by the actual demand for industrial intelligence, this report introduces the progress made in combining control and optimization with artificial intelligence. The purpose is to deepen the discussion and broaden our thinking by throwing bricks, and to meet the challenges brought by AI.



Jinliang Ding is currently a Professor with the State Key Laboratory of Synthetical Automation for Process Industries, Northeastern University. He has authored or coauthored over 200 refereed journal and international conference papers, and has invented or coinvented more than 50 patents. His research interests include modeling, plant-wide control and optimization for the complex industrial systems, machine learning, industrial artificial intelligence, computational intelligence, and its application.

Dr. Ding has received numerous awards, including the Young Scholars Science and Technology Award of China (2016), the National Science Fund for Distinguished Young Scholars (2015), the National Technological Invention Award (2013), the Natural Science Award of Liaoning Province (2022), and the First-Prize of Science and Technology Awards from the Ministry of Education in 2006, 2012, and 2018. Additionally, one of his articles in Control Engineering Practice won the Best Paper Award for 2011 – 2013. He also serves as an Associate Editor for IEEE Transactions on Evolutionary Computation, IEEE Transactions on Emerging Topics in Computational Intelligence, and IEEE Transactions on Circuits and Systems II: Express Briefs.

Multi-source Information Fusion for Target Recognition and Tracking

Professor Zhunga Liu 刘准钆 Northwestern Polytechnical University

Abstract

Multi-source information fusion can effectively enhance target recognition and tracking performance. Because of the complex sensing environment, the target observations become quite uncertain, heterogeneous and even conflicting, and this makes the information fusion face great challenge. We will introduce a generalized credal classification model for uncertain data, and it can reveal classification imprecision and reduce error risk thanks to the meta-class. Then, the multi-source heterogeneous data transferred fusion method will be presented for intelligent target recognition, and this can improve recognition rates by taking advantage of the complementary knowledge from different sources. Finally, the maneuvering target tracking and reasoning method will be introduced to stably track the target and correctly predict its intention.



Zhunga Liu received the Bacholar, Master and PhD degrees in control science and engineering from Northwestern Polytechnique University (NPU) respectively. Now he is a professor in School of Automation, NPU. He has published some papers in international journals such as IEEE TPAMI\TCYB\TNNLS. He host several projects like National Natural Science Foundation of China. He is currently serving as an Associate Editor/Editorial Board Member of IEEE Transactions on Systems, Man, and Cybernetics- Systems, International Journal of Approximate Reasoing , and Chinese Journal of Aeronautics. His current research interests mainly focus on

multi-source information fusion and target recognition and tracking.

Navigation and Perception Technologies and Applications for Intelligent Unmanned Systems in Complex Scenarios

Professor Jun Luo 罗均 Chongqing University

Abstract

Perception capability is fundamental for intelligent unmanned systems to understand and interact with their surrounding environment. The advancement of autonomous operation in complex scenarios relies on the continuous enhancement of perception capabilities. Our team has been conducting indepth research on perception technologies for intelligent unmanned systems in complex scenarios. We have made breakthroughs in key technologies such as structured industrial scene feature perception, dynamic environment perception in the wild, non-cooperative target perception, and lowaltitude, slow-moving target perception. We have developed a multi-sensor fusion perception technology system incorporating cameras, LiDAR, infrared sensors, and radar. This has resulted in a series of innovative technological achievements, enabling intelligent unmanned systems to perceive environments and targets in complex scenarios. Examples include precise recognition of welding features by robot welders on the Changtai Yangtze River Bridge, autonomous cross-domain perception and motion planning in unstructured environments by amphibious unmanned vehicles, and detection, identification, and tracking of non-cooperative targets and low-altitude, slow-moving aerial targets such as drones. These technologies serve major national engineering projects and the development of key defense equipment models, and have received multiple awards, including the second prize of the National Science and Technology Progress Award.



Jun Luo is the Dean of the College of Mechanical and Vehicle Engineering at Chongqing University, a Second-Level Professor, and a Ph.D. advisor. He also serves as the Director of the State Key Laboratory of Mechanical Transmission and is the leader of the first national Huang Danian-style faculty team. His primary research areas include robotics technology, trajectory tracking and disturbance rejection control for intelligent unmanned systems, small target perception and recognition, acoustic stealth, and swarm game theory algorithms. Prof. Luo has led over 30 major projects, including key projects funded by the Central Military Commission Science and Technology Committee, the National Key R&D Program, the National 863 Program, major instrument projects and key projects from the National

Natural Science Foundation of China, and the National Science Fund for Distinguished Young Scholars. He has published over 280 SCI-indexed papers, received the IEEE Best Paper Award, holds 310 authorized invention patents, and has authored and translated five monographs. His accolades include one Second Prize of the National Technological Invention Award, one Second Prize of the National Science and Technology Progress Award, and five First Prizes in industry and provincial/ministerial science and technology awards.

Collaborative Fault Diagnosis and Fault-Tolerant Control Technologies for Swarm Unmanned Systems

Professor Zehui Mao 冒泽慧 Nanjing University of Aeronautics and Astronautics

Abstract

Swarm unmanned systems are typical distributed networked multi-agent systems that integrate technologies such as perception, communication, computing, control, and optimization. As the scale of swarm systems increases, the task execution time extends, and the on-site environment becomes more variable, the probability of encountering external attacks, interference, and deception leading to faults also rises. Due to the information exchange and transmission within the swarm, faults can spread to neighbors or even the entire swarm systems, affecting the swarm's efficiency and causing immeasurable losses. This talk is going to introduce the fault diagnosis methods under the fault propagation, the task search and allocation problem of remaining healthy unmanned units under the constraints of swarm performance, individual mechanical characteristics, and complex external environments. In addition, some experiments are presented to show the actual unmanned formation.



Zehui Mao received the Ph.D. (Hons.) degree in control theory and control engineering from Nanjing University of Aeronautics and Astronautics, Nanjing China, in 2009. she is currently a Full Professor with the College of Automation Engineering, Nanjing University of Aeronautics and Astronautics. She has published over 80 technical papers in peer-refereed journals and prestigious conference proceedings. She has won the second class prize of National Natural Science of China (rank 4), the first class prize of Science

and Technology of Jiangsu Provincial (rank 3). She currently serves as an Associate Editor for IEEE Transactions on Industrial Informatics and Neurocomputing, as well as a Youth Editorial Board Member for IEEE/CAA Journal of Automatica Sinica. Her current research interests include the fault diagnosis and fault-tolerant control and their applications in transport and equipment systems.

Highly-Efficient Autonomous Learning for Intelligent Robots

Professor Xin Xu 徐昕 National University of Defense Technology

Abstract

With the increasing demand for various types of robots and unmanned systems in industries such as healthcare and national defense, it is necessary to research and explore efficient autonomous learning theories and methods for intelligent perception and optimization control of robot systems in complex and uncertain environments, reducing reliance on manually labeled samples or actual interactive data. Based on the analysis of relevant technical requirements, the report introduces the research progress of regularized reinforcement learning, abstract model-based deep reinforcement learning, online learning predictive control, and transfer reinforcement learning, as well as several research advances in their application in robot grasping and intelligent vehicle optimization control. Finally, some analysis and outlook are provided for further work.



Xin Xu is currently a full Professor with the College of Intelligence Science and Technology, National University of Defense Technology. He received the National Distinguished Young Scholar Fund from National Natural Science Foundation of China. He has been a Visiting Professor with Hong Kong Polytechnic University, Hong Kong; the University of Alberta, Edmonton, AB, Canada; the University of Guelph, Guelph, ON, Canada; and the University of Strathclyde, Glasgow, U.K., respectively. He has coauthored more than 200 papers in international journals and conferences and coauthored four books. His research interests include reinforcement learning, approximate dynamic programming, machine

learning, robotics, and autonomous vehicles. Dr. Xu received the National Excellent Youth Science Foundation of China in 2018, the Fork Ying Tong Youth Teacher Fund of China in 2008 and the Second Class National Natural Science Award of China in 2012. He is also one of the recipients of two 1st-class Natural Science Award of Hunan Province. He is an Associate Editor of IEEE Transactions on Systems, Man, and Cybernetics: Systems, IEEE Transactions on Intelligent Vehicles, Information Sciences, International Journal of Robotics and Automation, etc.

Recent Developments on Prescribed-Time Control by Periodic Delayed Feedback

Professor Bin Zhou 周彬 Harbin Institute of Technology

Abstract

Prescribed-time control has been a hot topic in recent years. Existing prescribed-time control methods are mainly based on time-varying high-gain feedback (THF). However, since an infinite gain is practically impossible to achieve, such kind of controllers are not well-defined at and after the prescribed settling time. Recently, another control scheme capable of achieving prescribed-time stabilization, namely, a periodic delayed feedback (PDF) scheme, was proposed. An appealing feature of the PDF is that the time-varying controller gain is bounded and can be chosen continuous, continually differentiable and even smooth, thereby avoiding the inherent drawbacks of THF. Over the past three years, there have been many interesting and significant developments in the PDF scheme, achieving prescribed-time stabilization of linear delay systems, strict feedback systems and single input normal nonlinear systems. As applications of the proposed methods, the prescribed-time control problems of spacecraft rendezvous control systems, hypersonic vehicle systems and manipulator systems have been investigated. Numerical simulations show the effectiveness of the proposed methods.



Bin Zhou is a Professor of the Department of Control Science and Engineering at the Harbin Institute of Technology. He received the Bachelor's degree, the Master's Degree and the Ph.D. degree from the Department of Control Science and Engineering at Harbin Institute of Technology, Harbin, China in 2004, 2006 and 2010, respectively. His current research interests include time-delay systems, time-varying systems, nonlinear control, multiagent systems, and control applications in astronautic engineering. He received the National Excellent Doctoral Dissertation Award in 2012 from the Ministry of Education of P.R. China, and was granted the China National

Funds for Distinguished Young Scientists on 2021. He is currently an Associate Editor of Automatica, IEEE Transactions on Aerospace and Electronic Systems, IEEE Transactions on Systems, Man and Cybernetics: Systems, International Journal of Robust and Nonlinear Control, European Journal of Control, IET Control Theory & Applications, and Asian Journal of Control.

Content List of 2024 International Conference on Guidance, Navigation and Control

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Hongrui Xiong	AVIC Chengdu Aircraft Industrial
Mingchang Zheng	Beihang Univ.
Xin Luo	AVIC Chengdu Aircraft Industrial
Jinsong YU	Beihang Univ.
Jie Yang	Beihang Univ.
13:38-13:46	SatA1.2
851 A Spatio-Temporal In	formation Fused Deep Neural Network
Method for Anomaly Dete	ection
Yufu Wang	Beihang Univ.
Wenjian Zheng	Beihang Univ.
Diyin Tang	Beihang Univ.
13:46-13:54	SatA1.3
914 Localization of Target	ts by Cooperative Aircraft Swarm Using
Passive Radar Angle Mea	asurement
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Jiuqing Wan	Beihang Univ.
Sheng Quan	Beijing Institute of Mechanical and
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262 Differential game-ba	sed fault-tolerant formation control for
fixed-wing UAVs under th	e fully actuated system framework
Jiao Hu	Nanjing Univ. of Aeronautics and
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Hao Yang	Nanjing Univ. of Aeronautics and
	Astronautics
Yuhang Xu	Nanjing Univ. of Aeronautics and
	Astronautics
Bin Jiang	Nanjing Univ. of Aeronautics and
	Astronautics
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Hao Liu	Nanjing Univ. of Aeronautics and
	Astronautics
Ziquan Yu	Nanjing Univ. of Aeronautics and
	Astronautics
Lingxia Mu	Xi'an Univ. of Technology
Liang Han	Nanjing Univ. of Aeronautics and
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Zhongyu Yang	Nanjing Univ. of Aeronautics and
	Astronautics
Youmin Zhang	Concordia Univ.

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Yuan Yuan	Northwestern Polytechnical Univ.
Huanhuan Yuan	Northwestern Polytechnical Univ.
14:18-14:26	SatA1.7
789 A DO-MPC Control Strat	egy for Trajectory Tracking of
Quadcopters	
Wenru Fan	Civil Aviation Univ. of China
Hongyu Li	Civil Aviation Univ. of China
Bailing Tian	Tianjin Univ.
14:26-14:34	SatA1.8
888 Optimal Capture Strateg	y Design Based on Reinforcement
Learning in the Pursuit-Evasi	on Game with Unknown Dynamics
Yupeng Jia	Tongji Univ.
Yi Dong	Tongji Univ.
14:34-14:42	SatA1.9
1213 多智能体系统的自适应	固定时间编队控制
Jiale Li	Northwestern Polytechnical Univ.
Qilin Zhong	Northwestern Polytechnical Univ.
Jie Xiao	Northwestern Polytechnical Univ.
Guofei Li	Northwestern Polytechnical Univ.
14:42-14:50	SatA1.10
1698 带攻击角约束的自适应	固定时间预设性能制导律
Tianfeng Li	Northwestern Polytechnical Univ.
Guicai Fang	Aerospace Technology Institute of
	CARDC
Rui Pan	Xi'an Morden Control Technology
	Research Institute
Yonghua Fan	Northwestern Polytechnical Univ.
14:50-14:58	SatA1.11
623 Optimization of SAR I	Forward-Looking Imaging Trajectory
Based on Adaptive Pseudosp	pectral Method
	National Key Laboratory of
Tianjian Sun	Complex System Control and
	Intelligent Agent Cooperation
Mingrui Hao	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
Hang Zhang	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
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Xiaomeng Bai	National Key Laboratory of
	Complex System Control and

Beihang Univ.

Xujun Guan

Ruoning Wang	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
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Reinforcement Learning	
Qixin Dai	Harbin Institute of Technology
Baoqing Yang	Harbin Institute of Technology
Shiyao Li	Harbin Institute of Technology
15:14-15:22	SatA1.14
1720 Maneuver Decision	Making for Multi-aircraft Air Combat
Based on Reinforcement	Learning with Attention Mechanism
Peida Li	Beihang Univ.
Xiaoduo Li	Beihang Univ.
Liang Han	Beihang Univ.
15:22-15:30	SatA1.15
1754 Time-Varying Fo	rmation Optimization Tracking of Multi-
Agent Systems with Se	mi-Markov Switching Topology
Cuijuan Zhang	Chongqing Univ. of Posts and
	Telecommunications
SatA2	3rd Floor Meeting Room 306
Collaborative GNC	三层会议室 306
Chairs: Yirui Cong	National Univ.of Defense Technology
Kehao Wang	Wuhan Univ. of Technology
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Working Conditions	
Jiajun Pan	Nanjing Univ. of Aeronautics and
	Astronautics
Ke Zhang	Nanjing Univ. of Aeronautics and
	Astronautics
Bin Jiang	Nanjing Univ. of Aeronautics and
	Astronautics
Lihao Ye	Nanjing Univ. of Aeronautics and
	Astronautics
Jinfa Xu	National Key Laboratory of Helicopter
	Aeromechanics
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511 Nonlinear MPC-base	d Fault-tolerant Tracking Control of a
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Yupeng Shu	Shanghai Univ.
Yihuan Jin	Shanghai Aerospace Control
	Technology Institute,
Kuan Li	Shanghai Aerospace Control
	Technology Institute,
Jing Zhao	Shanghai Microsate Engineering
	Center
Chun Liu	Shanghai Univ.
Hongtian Chen	Shanghai Jiao Tong Univ.
13:46-13:54	SatA2.3
1246 Fast Estimation of I	Relative Transformation Based on
Fusion of Odometry and	UWB Ranging Data
Yuan Fu	Shanghai Univ.

Zheng Zhang	Shanghai Univ.
Guangyang Zeng	The Chinese Univ. of HongKong
Chun Liu	Shanghai Univ.
Junfeng Wu	The Chinese Univ. of HongKong
Xiaoqiang Ren	Shanghai Univ.
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for Integrated Detec	tion, Communication, and Jamming
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Kehao Wang	Wuhan Univ. of Technology
Zhe Cheng	Wuhan Univ. of Technology
14:02-14:10	SatA2.5
587 A Comprehensive	Security Testing Method for Intelligent
System	
Zhendong Wu	National Key Laboratory of Science
	and Technology on Information
	System Security
Ming Zhang	National Key Laboratory of Science
	and Technology on Information
	System Security
Hu Li	National Key Laboratory of Science
	and Technology on Information
	System Security
14:10-14:18	SatA2.6
609 Collaborative Task	Allocation Method for Heterogeneous
Unmanned Platforms	Ĵ,
Zhengkai Lu	National Univ. of Defense Technology
Nan Wang	National Univ. of Defense Technology
Jie Huang	National Univ. of Defense Technology
Huajie Hong	National Univ. of Defense Technology
14:18-14:26	SatA2.7
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Sliding Mode Feedback	for Nonlinear Systems with Backlash
Input	
Xingxing Zhou	China Univ. of Mining and Technology
Yanhao Zhang	China Univ. of Mining and Technology
Jianguo Dong	Southeast Univ.
Xiaona Liu	China Univ. of Mining and Technology
Tianyu Yu	China Univ. of Mining and Technology
Yumeng Zhong	China Univ. of Mining and Technology
14:26-14:34	SatA2.8
883 An Improved Ala	prithm for UAV Video Object Detection
Based on Spatiotempor	ral Correlation
Zihao Zhou	National Univ. of Defense Technology
Xianguo Yu	National Univ. of Defense Technology
Xiangke Wang	National Univ. of Defense Technology
14:34-14:42	SatA2 9
1167 An Unmanned A	erial Vehicle Height Estimation Method
Based on Set-Member	shin Filter and Constrained Zonotone
Cheng Li	National Univ of Defense Technology
Xuije Oin	National Univ. of Defense Technology
Yute Xiao	National Univ. of Defense Technology
Liuhao Sheng	National Univ. of Defense Technology

SatA2.10

Shanghai Univ.

14:42-14:50

1199 Predefined-time Guiding Vector Fields for Robot Motion via Time Base Generators

Junlong Wu	South China Univ. of Technology
Weijia Yao	Hunan Univ.
Jian Yang	South China Univ. of Technology
14:50-14:58	SatA2.11
1283 Formation Control	and Ellipsoidal Outer-Bounding Set-
Membership Filtering o	f Multi-UAV Systems: An Integrated
Design	
Yating Lai	Northwestern Polytechnical Univ.
Yaru Chen	National Univ. of Defense Technology
Jianlin Chen	Northwestern Polytechnical Univ.
Zhihong Liu	National Univ. of Defense Technology
Yu Ding	National Univ. of Defense Technology
Yute Xiao	National Univ. of Defense Technology
14:58-15:06	SatA2.12
643 Cross-standard cod	e defect identification and AST-based
template-driven automate	ed repair methods
Tianyi Guan	Beihang Univ.
Yongfeng Yin	Beihang Univ.
Qingran Su	Beihang Univ.
Ruinan Qiu	Beihang Univ.
15:06-15:14	SatA2.13
172 A Method for Modelin	ng and Deploying Kill Web
Pei Chi	Beihang Univ.
Chen Liu	Beihang Univ.
Jiang Zhao	Beihang Univ.
Kun Wu	Beihang Univ.
Yingxun Wang	Beihang Univ.
15:14-15:22	SatA2.14
175 Evaluation of Clu	ister Target Sensing and Tracking
Algorithms	
Jiang Zhao	Beihang Univ.
Shukun Chen	Beihang Univ.
Pei Chi	Beihang Univ.
Yan Ma	Beijing Institute of Control &
	Electronics Technology
Guangyi Wang	Northwestern Polytechnical Univ.
Yingxun Wang	Beihang Univ.
15:22-15:30	SatA2.15
211 Evaluation of Cluste	er Region Search and Route Planning
Algorithms	
Yuhan Liu	Beihang Univ.
Jiang Zhao	Beihang Univ.
Pei Chi	Beihang Univ.
Jiang Lou	Aran Modern Control Technology
Vinguan Maria	Research Institute
	Beihang Univ.
SatA3	3rd Floor Meeting Room 307
Swarm GNC	三层会议室 307
Chairs: Jie Li	National Univ.of Defense Technology
Yangguang Yu	National Univ.or Defense Technology
13:30-13:38	SatA3.1

Yinghe Zhou	Northwestern Polytechnical Univ.
Jun Zhou	Northwestern Polytechnical Univ.
Jianguo Guo	Northwestern Polytechnical Univ.
13:38-13:46	SatA3.2
523 Formation control of mu	ltiple unmanned surface vehicles
based on dynamic deadb	and intermittent event-triggered
strategy	
Xinyu Xing	Harbin Engineering Univ.
Peng Li	Harbin Engineering Univ.
Yang Xu	Northwestern Polytechnical Univ.
13:46-13:54	SatA3.3
566 3D Route Planning of Ur	nmanned Aerial Vehicles in Dense
and Complex Urban Environn	nent
Guoxin Zhou	Jilin Institute of Chemical
	Technology
Ting Liu	Jilin Institute of Chemical
	Technology
Yang Xu	Northwestern Polytechnical Univ.
13:54-14:02	SatA3.4
573 融合信息图的优化哈里斯	医多无人机动态目标搜索
Ting Liu	Jilin Institute of Chemical
	Technology
Guoxin Zhou	Jilin Institute of Chemical
	Technology
Yang Xu	Northwestern Polytechnical Univ.
Delin Luo	Xiamen Univ.
Zhengyu Guo	Chinese Airborne Missile Academy
14:02-14:10	SatA3.5
878 Dual-domain high-precisi	on tracking control for PMI SMs
J	
Xuchen Wang	Fudan Univ.
Xuchen Wang Yu Jin	Fudan Univ. Fudan Univ.
Xuchen Wang Yu Jin Yang Xu	Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ.
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang	Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ.
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu	Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ.
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18	Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. SatA3.6
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A	Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North	Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He	Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He	Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas quadrotor UAVs	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang <u>Yuping Liu</u> 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas guadrotor UAVs Yuanchun Ren	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of AVIC First Aircraft Design and
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas quadrotor UAVs Yuanchun Ren	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of AVIC First Aircraft Design and Research Institute
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas quadrotor UAVs Yuanchun Ren Xuchen Wang	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of AVIC First Aircraft Design and Research Institute Fudan Univ.
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas quadrotor UAVs Yuanchun Ren Xuchen Wang Yang Xu	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of AVIC First Aircraft Design and Research Institute Fudan Univ. Northwestern Polytechnical Univ.
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas quadrotor UAVs Yuanchun Ren Xuchen Wang Yang Xu 14:26-14:34	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of AVIC First Aircraft Design and Research Institute Fudan Univ. Northwestern Polytechnical Univ. SatA3.8
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas quadrotor UAVs Yuanchun Ren Xuchen Wang Yang Xu 14:26-14:34 199 Decoupling Control for	Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of AVIC First Aircraft Design and Research Institute Fudan Univ. Northwestern Polytechnical Univ. SatA3.8 a Flying-Wing Aircraft Based on
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang <u>Yuping Liu</u> 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas guadrotor UAVs Yuanchun Ren Xuchen Wang Yang Xu 14:26-14:34 199 Decoupling Control for Linear Extended State Observer	Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. Northwestern Polytechnical Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of AVIC First Aircraft Design and Research Institute Fudan Univ. Northwestern Polytechnical Univ. SatA3.8 a Flying-Wing Aircraft Based on ver
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas quadrotor UAVs Yuanchun Ren Xuchen Wang Yang Xu 14:26-14:34 199 Decoupling Control for Linear Extended State Observe Mian Wu	Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of AVIC First Aircraft Design and Research Institute Fudan Univ. Northwestern Polytechnical Univ. SatA3.8 a Flying-Wing Aircraft Based on ver Beihang Univ.
Xuchen Wang Yu Jin Yang Xu Xiaofeng Yang Yuping Liu 14:10-14:18 1459 Integrated Navigation A Based on Launch Point North Ying He Shanshan Wei 14:18-14:26 1597 Finite-time bearing-bas quadrotor UAVs Yuanchun Ren Xuchen Wang Yang Xu 14:26-14:34 199 Decoupling Control for Linear Extended State Observ Mian Wu Jia Song	Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. Fudan Univ. SatA3.6 Igorithm for High-Dynamic Aircraft -Up-East Frame China Aerospace Science and Industry Corporation Limited Guizhou Police College SatA3.7 ed formation maneuver control of AVIC First Aircraft Design and Research Institute Fudan Univ. Northwestern Polytechnical Univ. SatA3.8 a Flying-Wing Aircraft Based on ver Beihang Univ. Beihang Univ.

203 IMM-based ballistic retracing method for the boost-phase of

Mingfei Zhao	Beihang Univ.
14:34-14:42	SatA3.9
281 Multi-Object Tracking	with Graph-aided Structure Correction
and Motion Prediction	
Peiqi Liu	Beihang Univ.
Wenling Li	Beihang Univ.
14:42-14:50	SatA3.10
651 Leader-Follower C	onsensus Control of Cyber-Physical
Systems under Asynchro	nous DoS Attacks
Hangwu He	Beihang Univ.
Yang Liu	Beihang Univ.
14:50-14:58	SatA3.11
1671 Local Path Planning	g of Unmanned Surface Vehicle based
on Improved DWA Algorit	hm
Cheniia Ji	Harbin Engineering Univ.
Lanvong Zhang	Harbin Institute of Technology
14:58-15:06	SatA3.12
770 Elliptical multi-orbit o	ircumnavigation control of LIAVs in
three-dimensional space	depending on angle information only
Zhen Wang	Northeastern Univ
Yannan Li	Northeastern Univ
15:06-15:14	SatA3 13
1409 Cascaded Ontimiza	tion-based Motion Planning for Dual-
Transportation System	
liniiang Gao	Nankai Univ
Zhaoneng Zhang	Nankai Univ
	Nankai Univ.
Ying Linng	Nankai Univ.
lianda Han	Nankai Univ.
	SotA2 14
1605 Finite Time Cooper	ative Moving Target Circumpavigating
Control of Multiple Norbe	
Vannan Li	Northoastorn Univ
Vanhong Luo	Northeastern Univ.
Zhon Wang	Northeastern Univ.
	Northeastern Only.
15:22-15:50	SalA3.15
Bic Bl Madal during CN	Se Outere
BIGRU Model during GN	SS Oulage
Rop Niu	Sun Yat son Univ.
	Sun Yat son Univ.
	Sun Yat sen Univ.
Aldonul Zeng	Sun Yat son Univ.
Boill Zhang	
SalA4	SFG Floor Meeting Room 309 一日人沙安 200
Controntation GNC	
Tangging Miss	National Univ.of Defense Technology
12:20 12:20	
13.30-13.30	SatA4.1
	ontroller design for discrete singular
systems based on state o	
Jiajun wang	
kunznang ∠hang	Anhui Normal Univ.

Xuyang Yuan	Anhui Normal Univ.
Fang Gao	Anhui Normal Univ.
13:38-13:46	SatA4.2
436 Load frequency control of	multi-area power system in
network environment	
Ziran Chen	Qufu Normal Univ.
Yifan Tian	Qufu Normal Univ.
Hongtao Sun	Qufu Normal Univ.
Cheng Tan	Qufu Normal Univ.
13:46-13:54	SatA4.3
485 Fixed-Time Stabilization Con	trol for Stochastic Single-Link
Robot Arm Systems	
Zhuosheng Kuang	Nanjing Univ. of Science and
	Technology
Zhicheng Wei	Nanjing Univ. of Science and
	Technology
Huifang Min	Nanjing Univ. of Science and
	Technology
13:54-14:02	SatA4.4
546 An Improved BI-RRT* Algoriti	hm for AGV Path Planning
Linxiao Leng	Nanjing Univ. of Science and
	Technology
Qian Ma	Nanjing Univ. of Science and
	Technology
Peng Jin	Nanjing Univ. of Science and
	Technology
Guopeng Zhou	Wuhan Textile University
14:02-14:10	SatA4.5
671 Networked Control Systems I	Event Triggering Control
Based on Markov Random Packe	t Loss Under DoS Attack
Qian Ding	Jiangsu Univ. of Technology
Bo Li	Jiangsu Univ. of Technology
Youwu Du	Jiangsu Univ. of Technology
Junjie Zhao	Jiangsu Univ. of Technology
14:10-14:18	SatA4.6
664 Distributed UAVs Noncoopera	ative Game: A Predefined Time
Approach	
Meijie Geng	China Univ. of geosciences
Huafeng Ding	China Univ. of geosciences
Xiangyu Yao	China Univ. of geosciences
Chenbo Ding	Air Force Engineering Univ.
14:18-14:26	SatA4.7
799 Micro-thruster Fault Classifica	ation of Drag-free Spacecraft
Using Deep Neural Network	
Zhibo Liang	Beihang Univ.
Xiaodong Shao	Beihang Univ.
Yongxia Shi	Nanyang Technological Univ.
Qinglei Hu	Beihang Univ.
Yonghe Zhang	Innovation Academy for
5	Microsatellites, CAS
Pengcheng Wang	Innovation Academy for
44.00.44.07	MICrosatellites, CAS
14:26-14:34	SatA4.8

1025 基于战术场景状态的近距空战对抗策略研究

Dongchang Li	Beijing Institute of Technology
Chao Xia	Chengdu Aircraft Design and
	Research Institute
Li Mo	Beijing Institute of Technology
Maolong Lv	Air Force Engineering Univ.
Linhua Cai	Chengdu Aircraft Design and
	Research Institute
14:34-14:42	SatA4.9
1038 Adaptive prescribed-time for	ormation control of surface
vehicles using dynamic surface	method
Ping Wang	Southern Univ. of Science and
	Technology
Chengpu Yu	Beijing Institute of Technology
Maolong Lv	Air Force Engineering Univ.
14:42-14:50	SatA4.10
347 Target allocation of small UA	AVs for coordinated strike
considering payload constraints	
Xujing Wang	Air Force Engineering Univ.
	Air Force Engineering Univ.
Xingyu He	
	Air Force Engineering Univ.
14:50-14:58	SatA4.11
for Multiagent Neplineer System	nsinbuled Consensus Control
Vana Du	Oingdoo Univ. of Science and
rang Du	Technology
Liting Lu	Oingdao Univ of Science and
	Technology
Yaxi Wu	Xidian Univ.
Dongmei Wang	Qingdao Univ. of Science and
0 0	Technology
Jing Li	Xidian Univ.
Maolong Lv	Air Force Engineering Univ.
Qixuan Yin	Air Force Engineering Univ.
14:58-15:06	SatA4.12
795 Learning-based Drag-free a	nd Attitude Control of
Spacecraft with State Constraint	s
Haoran Li	Beihang Univ.
Xiaodong Shao	Beihang Univ.
Qinglei Hu	Beihang Univ.
Yonghe Zhang	Innovation Academy for
	Microsatellites, CAS
Pengcheng Wang	Innovation Academy for
	Microsatellites, CAS
15:06-15:14	SatA4.13
1686 Robot Manipulator Tracking	g Control on Basis of Iterative
Sequential Action Control	
Hanwen Zhang	Central South Univ.
Guanhua Huang	Central South Univ.
Zeyang Yin	Central South Univ.
Caisheng Wei	Central South Univ.
Yongtang Xie	Central South Univ.
15:14-15:22	SatA4.14

1690 Classification and verificat	ion Assessment Methods for
Unmanned Swarm Autonomous	Coordination Capabilities
Chubing Guo	The 20th Research Institute of
	China Electronics Technology
	Group Corporation
Lulu Zhao	The 20th Research Institute of
	China Electronics Technology
	Group Corporation
Sule Wang	The 20th Research Institute of
·	China Electronics Technology
	Group Corporation
Zhigang Wang	The 20th Research Institute of
5 5 5	China Electronics Technology
	Group Corporation
Hao Wu	The 20th Research Institute of
	China Electronics Technology
	Group Corporation
Ying Zhang	The 20th Research Institute of
Aing Zhang	
	Group Corporation
15:22-15:30	SatA4.15
1288 Multi-UAV Target Coverag	e Path Planning using Attention
Neural Networks	
Guodong Yang	Univ. of Science and
	Technology of China
Shaofeng Chen	Univ. of Science and
	Technology of China
Yang Cao	Univ. of Science and
Yang Cao	Univ. of Science and Technology of China
Yang Cao SatA5	Univ. of Science and Technology of China 3rd Floor Meeting Room 310
Yang Cao SatA5 Optimization GNC	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ.
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 Derant Attitude Control of Fixed-
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 Interant Attitude Control of Fixed-
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft Alex B.Zongo	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 Interant Attitude Control of Fixed- Tsinghua Univ.
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft Alex B.Zongo Qing Li	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 olerant Attitude Control of Fixed- Tsinghua Univ. Tsinghua Univ.
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft Alex B.Zongo Qing Li 13:38-13:46	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 Derant Attitude Control of Fixed- Tsinghua Univ. Tsinghua Univ. SatA5.2
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft Alex B.Zongo Qing Li 13:38-13:46 869 Non-initial value fault-tol	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 olerant Attitude Control of Fixed- Tsinghua Univ. Tsinghua Univ. SatA5.2
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft Alex B.Zongo Qing Li 13:38-13:46 869 Non-initial value fault-tol control for small fixed-wing UAV	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 Interant Attitude Control of Fixed- Tsinghua Univ. Tsinghua Univ. SatA5.2 Iterant prescribed performance
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft Alex B.Zongo Qing Li 13:38-13:46 869 Non-initial value fault-tol control for small fixed-wing UAV Bo Huang	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 Interant Attitude Control of Fixed- Tsinghua Univ. Tsinghua Univ. SatA5.2 Iterant prescribed performance is with actuator faults Henan Polytechnic Univ.
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft Alex B.Zongo Qing Li 13:38-13:46 869 Non-initial value fault-tol control for small fixed-wing UAV Bo Huang Zhondhua Wu	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 Interant Attitude Control of Fixed- Tsinghua Univ. Tsinghua Univ. SatA5.2 Iterant prescribed performance is with actuator faults Henan Polytechnic Univ. Henan Polytechnic Univ.
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft Alex B.Zongo Qing Li 13:38-13:46 869 Non-initial value fault-tol control for small fixed-wing UAV Bo Huang Zhonghua Wu 13:46-13:54	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 Interant Attitude Control of Fixed- Tsinghua Univ. Tsinghua Univ. SatA5.2 Ferant prescribed performance is with actuator faults Henan Polytechnic Univ. Henan Polytechnic Univ.
Yang Cao SatA5 Optimization GNC Chairs: Ziquan Yu Ning Sun 13:30-13:38 434 Towards Intelligent Fault-To Wing Aircraft Alex B.Zongo Qing Li 13:38-13:46 869 Non-initial value fault-tol control for small fixed-wing UAV Bo Huang Zhonghua Wu 13:46-13:54 559 Cloud Manufacturing Pace	Univ. of Science and Technology of China 3rd Floor Meeting Room 310 三层会议室 310 Nanjing Univ. of Aeronautics and Astronautics Beihang Univ. SatA5.1 Olerant Attitude Control of Fixed- Tsinghua Univ. Tsinghua Univ. SatA5.2 Iderant prescribed performance is with actuator faults Henan Polytechnic Univ. Henan Polytechnic Univ. SatA5.3
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Bin Jiang	Nanjing Univ. of Aeronautics	
	and Astronautics	
13:54-14:02	SatA5.4	
571 Small Target Detection A	lgorithm Based on Lightweighted	
YOLOv5		
Shaowei Cao	Xi'an Univ. of Technology	
Lingxia Mu	Xi'an Univ. of Technology	
Youmin Zhang	Concordia Univ.	
Ban Wang	Northwestern Polytechnical	
	Univ.	
Yulong Zhang	Xi'an Univ. of Technology	
Xianghong Xue	Xi'an Univ. of Technology	
14:02-14:10	SatA5.5	
577 Adaptive Fault-Tolerant Control for Multi-UAVs with Time-		
varying Communication Delay on Markov Random Packet Loss		
Under DoS Attack		
Liang Han	Nanjing Univ. of Aeronautics	
	and Astronautics	
Ziquan Yu	Nanjing Univ. of Aeronautics	

Ziquan Yu	Nanjing Univ. of Aeronautics
	and Astronautics
Yuehua Cheng	Nanjing Univ. of Aeronautics
	and Astronautics
Lingxia Mu	Xi'an Univ. of Technology
Youmin Zhang	Concordia Univ.
14:10-14:18	SatA5.6
578 Optimized Backstepping	Control for Spacecraft Formation
Flying Using Bearing Measure	ments
Mengna Li	Nanjing Univ. of Aeronautics
	and Astronautics
Ziquan Yu	Nanjing Univ. of Aeronautics
	and Astronautics
Lingxia Mu	Xi'an Univ. of Technology
Youmin Zhang	Concordia Univ.
14:18-14:26	SatA5.7
1269 Relationship Learning Ba	ased Robot Navigation in Crowd
Environment	
Yu Zhai	China Univ. of Mining and
	Technology
Libing Zhou	Tiandi Automation Co., Ltd
Xiaojing Chen	Tiandi Automation Co., Ltd
Yanzi Miao	China Univ. of Mining and
	Technology
14:26-14:34	SatA5.8
1316 Multi-agent Cluster Targe	et Coverage Control Based on
Hierarchical Planning	
Jinxuan Shi	Shanghai Jiao Tong Univ.
Zhe Liu	Shanghai Jiao Tong Univ.
Kefan Jin	Shanghai Jiao Tong Univ.
14:34-14:42	SatA5.9
1467 A study on frontal lobe	hemodynamics in SCD and MCI
patient by fNIRS	
ChuanYu Zhu	Soochow Univ.
Haoming Wu	Soochow Univ.

Mingyun Wang

14:42-14:50 SatA5.10 1468 Fusing Multiple Maps into Error-Bounded Segmented VIO: Preliminary Study Chenyang Wan Zhejiang Univ. Rong Xiong Zhejiang Univ. Rong Xiong Zhejiang Univ. Yue Wang Zhejiang Univ. 14:50-14:58 SatA5.11 1531 Scene Graph-Enhanced Embodied Decision Making for Autonomous Object Search Yachao Wang Shandong Univ. Yinchuan Wang Shandong Univ. Yinchuan Wang Shandong Univ. Xiang Zhang Shandong Univ. Yachao Wang Shandong Univ. Xiang Zhang Shandong Univ. Yachao Wang Shandong Univ. Xiang Zhang National Univ. of Defense Technology Technology Caizhi Fan National Univ. of Defense Technology Technology Zikai Zhong National Univ. of Defense Technology Technology Yongqiang Zhang Beijing Institute of Tracking and Yengqiang Zhang SatA5.13 Stachology Technology of China	Chao Liu	Soochow Univ.
1468 Fusing Multiple Maps into Error-Bounded Segmented VIO: Preliminary Study Chenyang Wan Zhejiang Univ. Zhogiang Univ. Rong Xiong Zhejiang Univ. Rong Xiong Zhejiang Univ. Yue Wang Zhejiang Univ. Yue Wang Zhejiang Univ. Yue Wang Zhejiang Univ. 14:50-14:58 SatA5.11 1531 Scene Graph-Enhanced Embodied Decision Making for Autonomous Object Search Yachao Wang Shandong Univ. Yinchuan Wang Shandong Univ. Xiang Zhang Shandong Univ. Xiang Zhang Shandong Univ. Xiang Zhang Shandong Univ. Xiang Zhang Shandong Univ. Xiang Zhang Shandong Univ. Xiang Zhang National Univ. of Defense Technology Caizhi Fan National Univ. of Defense Technology Zikai Zhong National Univ. of Defense Technology Zikai Zhong National Univ. of Defense Technology Yongqiang Zhang Beijing Institute of Tracking and Technology Yongaiang Zhang Beijing Institute of Science and Technology Yongaiang Zhang Shenzhen Institute of Advanced	14:42-14:50	SatA5.10
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Chunling Fan Shenzhen Institute of Advanced Technology, CAS 15:22-15:30 SatA5.15	Ye Li	Shenzhen Institute of Advanced
Chunling Fan Shenzhen Institute of Advanced Technology, CAS 15:22-15:30 SatA5.15		Technology, CAS
Technology, CAS 15:22-15:30 SatA5.15	Chunling Fan	Shenzhen Institute of Advanced
15:22-15:30 SatA5.15		Technology, CAS
	15:22-15:30	SatA5.15

1584 A Hybrid Model for EEG Decoding: Integrating

Soochow Univ.

Transformer and Multi-Dime	ensional Convolution	14:10
Guangyu Yang	Shenyang Institute of	1063 🧟
	Automation, CAS	Zhibir
Jinguo Liu	Shenyang Institute of	
	Automation, CAS	Xingji
SatA6	3rd Floor Meeting Room 311	
Knowledge-driven GNC	三层会议室 311	Tingh
Chairs: Dapeng Zhou	AVIC Shenyang Aircraft Design and	
	Research Institute	14:18
Lanbo Wu	Beihang Univ.	1100 In
13:30-13:38	SatA6.1	Method
931 基于滑模观测器和动态	逆技术的舰载机直接升力控制	Jiana
Chong Zhen	AVIC Shenyang Aircraft Design	Weide
	and Research Institute	
Xinyu Feng	AVIC Shenyang Aircraft Design	YanH
	and Research Institute	
13:38-13:46	SatA6.2	Weny
934 基于知识引导智能优化	的舰载机着舰控制	Shua
Dapeng Zhou	AVIC Shenyang Aircraft Design	14:26
	and Research Institute	1406 P
Xiaolei Qu	Northwestern Polytechnical	Maneu
	J Univ.	Zhe [
13:46-13:54	SatA6.3	Dape
976 Research on Dynamic	Inverse Direct Lift Carrier Based	
Landing Control Method Ba	sed on Online Aerodynamic	Weini
Identification		
Zevu Jin	Dalian Univ. of Technology	Zhen
Zhibing Zhang	AVIC Shenvang Aircraft Design	14:34
	and Research Institute	1444 (
Dapeng Yang	AVIC Shenvang Aircraft Design	Trackin
1 3 3	and Research Institute	Junhi
Shuaibin An	Dalian Univ. of Technology	
13:54-14:02	SatA6.4	Xiaolo
1002 Modeling and Longit	udinal Adaptive Tracking Control for	
Sweep-Variation Hypersoni	c Vehicles	Hanli
Yangi Feng	Sun Yat-Sen Univ.	
Zhigang Wu	Sun Yat-Sen Univ.	Zhiqia
Shuo Pan	AVIC Shenvang Aircraft Design	
	and Research Institute	14:42
Xiaove Bi	AVIC Shenvang Aircraft Design	618 Bir
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Jian-wen Zang	Dalian Univ. of Technology	RuoT
Guan Wang	Dalian Univ. of Technology	lian S
14:02-14:10	SatA6 5	JianX
1040 Research on on Offin	and Online Hybrid Intelligent	XueY
	and Online Hyprid Intelligent	GuoP
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Haltong Zhou	AVIC Snenyang Aircraft Design	Xiang
	and Research Institute	Guan
Halliang Feng	AVIC Snenyang Aircraft Design	⊦eng
	and Research Institute	Lona

	治却 <i>差卿有飞棍训选响™</i> ~
1003 奉丁 PER-SAU 的規章	<i>秋川百桃复℃採矾束略研光</i>
Zhibing Zhang	AVIC Snenyang Aircraft Design
Vingija Wong	
Angjia wang	AVIC Shenyang Alicial Design
Tinghui Vuon	And Research Institute
Tingnui Yuan	Nanjing Univ. of Aeronautics
44.40.44.00	and Astronautics
14:18-14:26	SatA6.7
1100 Investigation on Intellig	gent Dynamic Inverse Control
Vietnod for Hypersonic Veni	
weldong Yu	AVIC Snenyang Aircraft Design
	and Research Institute
YanHong Lu	AVIC Shenyang Aircraft Design
Manua 7	and Research Institute
vvenya ∠hou	Dalian Univ. of Technology
Shuaibin An	Dalian Univ. of Technology
14:26-14:34	SatA6.8
1406 Prescribed Performan	ce-based Adaptive Sliding Mode
waneuvering Guidance Met	noa with Energy Boundary
Zhe Dong	Dalian Univ. of Technology
Dapeng Zhou	AVIC Shenyang Aircraft Design
	and Research Institute
Weining Huang	AVIC Shenyang Aircraft Design
	and Research Institute
Zhenwei Wang	Dalian Univ. of Technology
14:34-14:42	SatA6.9
1444 Observer-based Ada	ptive Dynamic Programming for
Tracking Control of Haptic	Manipulator
Junhui Liu	Northwestern Polytechnical
	Univ.
Xiaolong Duan	Northwestern Polytechnical
	Univ.
Hanlin Dong	Northwestern Polytechnica
	Univ
Zhiqiang Ma	Northwestern Polytechnical
	Univ
14:42-14:50	SatA6.10
618 Bipartite Consensus Co	ontrol of Multi-Agent Systems with
Region-Dependent Intermitt	ent Communication
RuoTong Wang	Dalian Minzu Univ.
Jian Sun	Dalian Minzu Univ
JianXing Zhang	Dalian Minzu Univ
XueYan Ding	Dalian Minzu Univ
GuoPeng Wang	Dalian Minzu Univ
Yanming Wu	Shenyang Aerospace Univ.
14:50-14:58	SatA6.11
	样的分布式预设时间自适应跟踪控制
1594 切换拓扑下无人机集和	
<mark>1594</mark>	Linvi Univ
<mark>1594</mark> <i>切换拓扑下无人机集群</i> Ji Ma Xiangvong Chen	Linyi Univ. Linyi Univ.
1594 切换拓扑下无人机集群 Ji Ma Xiangyong Chen Guanghui Wen	Linyi Univ. Linyi Univ. Southeast Univ.
1594 切换拓扑下无人机集群 Ji Ma Xiangyong Chen Guanghui Wen Feng Zhao	Linyi Univ. Linyi Univ. Southeast Univ. Linyi Univ.

Jianlong Qiu	Linyi Univ.
14:58-15:06	SatA6.12
1650 Virtual-Pheromon	e-Aware Path Planning for Collaborative
Patrolling on Road Netw	vorks
Yan Zhang	Northwestern Polytechnic Univ.
Panfeng Huang	Northwestern Polytechnic Univ.
Fan Zhang	Northwestern Polytechnic Univ.
15:06-15:14	SatA6.13
1707 A Real-time Optin	nization and Control Platform for
Analysis of Gas-Steam	Combined Cycle Cogeneration System
Xi Chen	Inspur Group Co., Ltd
Chao Wang	Inspur Group Co., Ltd
Qingshan Chen	Inspur Group Co., Ltd
Yue Wang	Inspur Group Co., Ltd
Fei Wang	Inspur Group Co., Ltd
Houbo He	Inspur Group Co., Ltd
15:14-15:22	SatA6.14
662 基于遗传算法和径	向基函数神经网络的测试用例自动生成
方法研究	
Yonavi Liu	AVIC Shenvang Aircraft Design
	and Research Institute
Hao Liu	AVIC Shenvang Aircraft Design
	and Research Institute
Qi Zhang	AVIC Shenyang Aircraft Design
Qi Zhàng	and Research Institute
Ting Wang	AVIC Shenyang Aircraft Design
ning wang	and Research Institute
15.22-15.30	SatA6 15
855 Active Disturbance	Rejection-based Nonsingular Terminal
Sliding Mode Control fo	r LIAV under Wind Environments
Yequang Wang	AVIC Shenvang Aircraft Design
rogating trang	and Research Institute
Shineng Wang	AVIC Shenyang Aircraft Design
Onipeng wang	and Research Institute
Vang Zhang	
Tang Zhang	and Posoarch Instituto
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SatA/	3rd Floor Meeting Room 312
Safety GNC	3 层层收至 312
Chairs: Di Liu	Beinang Univ.
Qiang Fu	Liniv of Science and Jechnology Reling
	oniv. of ocience and recimology beijing
13:30-13:38	SatA7.1
13:30-13:38 220 Biological Eagle-Ey	SatA7.1 ve-Based Infrared Small Target Detection
13:30-13:38 220 Biological Eagle-Ey and Recognition	SatA7.1 ve-Based Infrared Small Target Detection
13:30-13:38 220 Biological Eagle-Ey and Recognition Jiaxu Liu	SatA7.1 ve-Based Infrared Small Target Detection University of Science and
13:30-13:38 220 Biological Eagle-Ey and Recognition Jiaxu Liu	SatA7.1 ve-Based Infrared Small Target Detection University of Science and Technology Beijing
13:30-13:38 220 Biological Eagle-Ey and Recognition Jiaxu Liu Qiang Fu	SatA7.1 ve-Based Infrared Small Target Detection University of Science and Technology Beijing University of Science and
13:30-13:38 220 Biological Eagle-Ey and Recognition Jiaxu Liu Qiang Fu	SatA7.1 ve-Based Infrared Small Target Detection University of Science and Technology Beijing University of Science and Technology Beijing
13:30-13:38 220 Biological Eagle-Ey and Recognition Jiaxu Liu Qiang Fu Zhijie Liu	SatA7.1 ve-Based Infrared Small Target Detection University of Science and Technology Beijing University of Science and Technology Beijing University of Science and
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13:30-13:38 220 Biological Eagle-Ey and Recognition Jiaxu Liu Qiang Fu Zhijie Liu Chunhua Zhang	SatA7.1 ve-Based Infrared Small Target Detection University of Science and Technology Beijing University of Science and Technology Beijing University of Science and Technology Beijing Automation Research Institute Co.
13:30-13:38 220 Biological Eagle-Ey and Recognition Jiaxu Liu Qiang Fu Zhijie Liu Chunhua Zhang	SatA7.1 <i>ye-Based Infrared Small Target Detection</i> University of Science and Technology Beijing University of Science and Technology Beijing University of Science and Technology Beijing Automation Research Institute Co. Ltd. of China South Industries
13:30-13:38 220 Biological Eagle-Ey and Recognition Jiaxu Liu Qiang Fu Zhijie Liu Chunhua Zhang	SatA7.1 <i>ye-Based Infrared Small Target Detection</i> University of Science and Technology Beijing University of Science and Technology Beijing University of Science and Technology Beijing Automation Research Institute Co. Ltd. of China South Industries Group Corporation
13:30-13:38 220 Biological Eagle-Ey and Recognition Jiaxu Liu Qiang Fu Zhijie Liu Chunhua Zhang Wei He	SatA7.1 <i>ve-Based Infrared Small Target Detection</i> University of Science and Technology Beijing University of Science and Technology Beijing University of Science and Technology Beijing Automation Research Institute Co. Ltd. of China South Industries Group Corporation University of Science and

13:38-13:46	SatA7.2
594 Composite Event-triggere	ed Model Predictive Control for
Constrained Perturbed Discr	ete Systems
Zhigang Luo	Beihang University
Bing Zhu	Beihang University
13:46-13:54	SatA7.3
899 Impact Angle Constraint (Guidance Law of Air-based Aircraft
Based on Power Reachir	ng Law and Considering Input
Saturation	
Ruiqi Liu	Beijing Institute of Technology
Wenlong Yang	Test and Measuring Academy of
	China North Industries Group
	Corporation
Kuanrong Hu	Northwest Industries Group
	Company Ltd.
Shiyu Zhang	Beijing Institute of Technology
Wei Wang	Beijing Institute of Technology
13:54-14:02	SatA7.4
1631 Image-Based prescribed	l performance control for quadrotor
to track an unknown target	
Bingjin Liu	Beijing Institute of Technology
Yi Huang	Beijing Institute of Technology
14:02-14:10	SatA7.5
259 Flight Quality Constrain	t Based AFTC Strategy for Near
Space Vehicle with New Typ	e Dissimilar Redundant Actuation
System	
Jun Wang E	Beijing Institute of Automatic Control
	Equipment
Jian Huang E	Beijing Institute of Automatic Control
	Equipment
Fan Zhang E	Beijing Institute of Automatic Control
	Equipment
Weikang Li E	Beijing Institute of Automatic Control
	Equipment
14:10-14:18	SatA7.6
402 Design and trajectory p	lanning of 6-DOF reconfiguration
parallel platform	
Fan Zhang	Beijing Institute of Automatic
	Control Equipment
Jian Huang	Beijing Institute of Automatic
	Control Equipment
Jun Wang	Beijing Institute of Automatic
	Control Equipment
Xijian Huo	Beijing Institute of Automatic
	Control Equipment
Xiangyu Liu	Beijing Institute of Automatic
	Control Equipment
14:18-14:26	SatA7.7
906 Multi-parameter Step-by-	Step Identification of Permanent

Magnet Synchronous Motor

Hongyu Gu Beijing Institute of Automatic Control Equipment ZhaoKai Zhang Beijing Institute of Automatic Control

66

	Equipment
Jian Huang	Beijing Institute of Automatic Control
	Equipment
Zhiyi Song	Beijing Institute of Automatic Control
	Equipment
Zhijia Cheng	Beijing Institute of Automatic Control
	Equipment
14:26-14:34	SatA7.8
1369 Switching control logi	c for dual-redundancy electro-
hydrostatic actuator	
Siming Fan	Beihang University
Chaofan Tu	China Tianjin Navigation
	Instrument Research Institute
Xingjian Wang	Beihang University
Haoran Zhai	China Tianjin Navigation
	Instrument Research Institute
Yingjun Hu	China Tianjin Navigation
	Instrument Research Institute
Di Liu	Beihang University
Qiyang Wang	Beihang University
14:34-14:42	SatA7.9
1551 Dynamic hysteresi	s self-adaptive control of amplified
piezoelectric actuators for o	complex operating conditions
Xiao Wu	Tianmushan Laboratory
Taike Yao	AECC Aero Engine Control System
	Institute
Xingjian Wang	Tianmushan Laboratory
Di Liu	Tianmushan Laboratory
Shaoping Wang	Tianmushan Laboratory
Yaoxing Shang	Tianmushan Laboratory
14:42-14:50	SatA7.10
635 Research on the Contr	ol Mode Design of Direct Lift Glide
Trajectory Based on Dynan	nic Inverse Control Method
Hao Li	AVIC First Aircraft Design and
	Research Institute
LeTian Zhao	AVIC First Aircraft Design and
	Research Institute
Junhong Zhang	AVIC First Aircraft Design and
	Research Institute
Hang Chen	AVIC First Aircraft Design and
	Research Institute
Shimin Liu	AVIC First Aircraft Design and
	Research Institute
Wei Zhang	AVIC First Aircraft Design and
	Research Institute
14:50-14:58	SatA7.11
580 Simulation and Control	of Aircraft High Angle of Attack Stall
Spin Based on Bifurcation	Analysis Results
Zhouhang Wei	Northwestern Polytechnical
	University
Jingping Shi	Northwestern Polytechnical

Yongxi Lyu

Shan Huang	Northwestern Polytechnical
	University
14:58-15:06	SatA7.12
191 Design of a Configurable Ge	neric Architecture for Unmanned
Aerial Vehicle Flight Control Sys	tem Application Software
Xin Liu	AVIC First Aircraft Design and
	Research Institute
Delong Cui	AVIC First Aircraft Design and
	Research Institute
Man Xia	AVIC First Aircraft Design and
	Research Institute
Xuan Yang	AVIC First Aircraft Design and
	Research Institute
Yuxiang Zhang	AVIC First Aircraft Design and
	Research Institute
Jingang Shi	Xi'an Jiaotong University
15:06-15:14	SatA7.13
295 Feedback mechanism and co	ontroller design for lateral control
of Propulsion-Controlled Aircraft	
Lei Gong	AVIC First Aircraft Design and

Shuguang Zhang	Beihang University
Feihong Jiang	AVIC First Aircraft Design and
	Research Institute
Junhong Zhang	AVIC First Aircraft Design and
	Research Institute
Wenjing Hei	AVIC First Aircraft Design and
	Research Institute
15:14-15:22	SatA7.14
362 UML-Based IVMS Redunda	ancy Monitoring Modeling
Beilei Yang	AVIC First Aircraft Design and
	Research Institute
Junhong Zhang	AVIC First Aircraft Design and
	Research Institute
Yuxiang Zhang	AVIC First Aircraft Design and
	Research Institute
15:22-15:30	SatA7.15
606 A Real-Time Jumping-flying	g Trajectory Generation Method for
606 A Real-Time Jumping-flying the Jumping Quadrotor	g Trajectory Generation Method for
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang	g Trajectory Generation Method for Sun Yat-sen University
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio Xinyu Liao	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology Central South University
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio Xinyu Liao 13:30-13:38	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology Central South University SatA8.1
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio Xinyu Liao 13:30-13:38 581 Three Dimensional Guidano	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology Central South University SatA8.1 ce for Enclosing a Stationary Target
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio Xinyu Liao 13:30-13:38 581 Three Dimensional Guidance in Arbitrary Specified Planes	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology Central South University SatA8.1 ce for Enclosing a Stationary Target
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio Xinyu Liao 13:30-13:38 581 Three Dimensional Guidance in Arbitrary Specified Planes Haoge Jiang	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology Central South University SatA8.1 ce for Enclosing a Stationary Target Beijing Institute of Technology
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio Xinyu Liao 13:30-13:38 581 Three Dimensional Guidand in Arbitrary Specified Planes Haoge Jiang Jianan Wang	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology Central South University SatA8.1 ce for Enclosing a Stationary Target Beijing Institute of Technology Beijing Institute of Technology
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio Xinyu Liao 13:30-13:38 581 Three Dimensional Guidand in Arbitrary Specified Planes Haoge Jiang Jianan Wang Kewei Xia	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology Central South University SatA8.1 ce for Enclosing a Stationary Target Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio Xinyu Liao 13:30-13:38 581 Three Dimensional Guidano in Arbitrary Specified Planes Haoge Jiang Jianan Wang Kewei Xia Fuxiang Liu	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology Central South University SatA8.1 ce for Enclosing a Stationary Target Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology
606 A Real-Time Jumping-flying the Jumping Quadrotor Xiaopeng Huang Hui Cheng SatA8 Aerospace GNC Chairs: Yuanlong Zhang Natio Xinyu Liao 13:30-13:38 581 Three Dimensional Guidand in Arbitrary Specified Planes Haoge Jiang Jianan Wang Kewei Xia Fuxiang Liu 13:38-13:46	g Trajectory Generation Method for Sun Yat-sen University Sun Yat-sen University 3rd Floor Meeting Room 313 三层会议室 313 onal Univ.of Defense Technology Central South University SatA8.1 ce for Enclosing a Stationary Target Beijing Institute of Technology Beijing Institute of Technology

826 Distributed Model Predictive Control Method for Multi-

University

University

Northwestern Polytechnical

Spacecraft System Nea	ar Asteroids
Leqin Zhou	Beijing Institute of Technology
Kewei Xia	Beijing Institute of Technology
Jianan Wang	Beijing Institute of Technology
13:46-13:54	SatA8.3
971 Multi-UAV Coopera	ative Detection and Assignment
algorithm on Multiple ta	argets based on Genetic Algorithm
Yihong Zhan	Beijing Institute of Technology
Changyu Bi	Beijing Institute of Technology
Haoge Jiang	Beijing Institute of Technology
Yu Cao	Beijing Institute of Technology
Xiumin Li	Beijing System Design Institute of
	Electro-Mechanical Engineering
Jianan Wang	Beijing Institute of Technology
13:54-14:02	SatA8.4
1223 Nonsingular P	redefined-time Control with Dynamic
Parameter and its Appl	ication on Visual Target Tracking of UAVs
Yanting Huang	Beijing University of Technology
ChenGuang Han	Beijing University of Technology
Honggui Han	Beijing University of Technology
14:02-14:10	SatA8.5
183 Data-driven Forma	ation Control of Multiple Uncertain
Hypersonic Vehicles	
Ming Cheng	Beihang University
Hao Liu	Beihang University
Qing Gao	Beihang University
Haibin Duan	Beihang University
14:10-14:18	SatA8.6
592 高超声速变形飞行	器时间协同再入滑翔制导律
Xiang Li	Beihang University
Wanchun Chen	Beihang University
Liang Yang	Beihang University
14:18-14:26	SatA8.7
1174 Robust Cooperati	ive Control for Heterogeneous Multi-
agent System with Unc	ertain Communication Links
Deyuan Liu	Beihang University
Zeng Zhao	Beijing Electro-Mechanical
	Engineering Institute
Hao Liu	Beihang University
Haibo Gu	Beihang University
Shangheng Li	Beihang University
Ruitao Fan	Beihang University
14:26-14:34	SatA8.8
1354 一种支持预警时多	效调节的异常检测模型评估方法
Xu Gao	Harbin Institute of Technology
Baoling Ning	Heilongjiang University
Wenbo Li	Beijing Institute of Control
	Engineering
14:34-14:42	SatA8.9
167 A scale adaptive tr	acking algorithm based on feature point
fitting	
- Xizhong Yang	Science and Technology on Avionics
5 5	Integration Laboratory
Ling Zhang	Nanjing University of Aeronautics and

	Astronautics
Yongrong Sun	Nanjing University of Aeronautics and
	Astronautics
14:42-14:50	SatA8.10
313 Quadrotor Trajec	ctory Tracking Based on Adaptive
Backstepping Active	Disturbance Rejection Control
Xin Zhao	Nanjing University of Aeronautics and
-	Astronautics
Tianyu Luo	Nanjing University of Aeronautics and
Oiseli Ma	Astronautics
Qianii Ma	Nanjing University of Aeronautics and
Yue Weng	Astronautics
Aue wang	Nanjing University of Aeronautics and
14.50 14.50	Astronautics
14.30-14.30	SalAo. 11
Vehicles Road or A	dantive Eactor Grant
Huivu Ho	Naning University of Apropautics and
	Actionautics
Zhi Xiong	Naniing University of Aeronautics and
lun Kang	Naniing University of Aeronautics and
Juli Kang	
XinRui Zhang	Naniing University of Aeronautics and
Allinai Zhang	
14.58-15.06	SatA8 12
619 DON-Optimized	d MPC for Spacecraft Rendezvous and
Dockina	
Xue Gao	Nanjing University of Aeronautics
	and Astronautics
Bing Hua	Nanjing University of Aeronautics
J.	and Astronautics
15:06-15:14	SatA8.13
790 Fault-Tolerant II	MU Array Fusion Algorithm Based on Error
Similarity Weighting	
Wentao Gao	Nanjing University of Aeronautics
	and Astronautics
Jizhou Lai	Nanjing University of Aeronautics
	and Astronautics
Pin Lyu	Nanjing University of Aeronautics
	and Astronautics
Rui Liu	Nanjing University of Aeronautics
	and Astronautics
Xin Sun	Nanjing University of Aeronautics
	and Astronautics
Jing Xu	Nanjing University of Aeronautics
	and Astronautics
15:14-15:22	SatA8.14
989 面向巨星座态势	感知的小规模星座优化设计
Yi Jiang	Nanjing University of Aeronautics and
	Astronautics
X I X I	Newtine Helicensity of Assessed (1997)

	Astronautics
15:22-15:30	SatA8.15
1427 高精度旋转调制惯导	系统在高纬度海区航行(极区导航)中
的应用	
Weiping Yang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Lu Zhang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Guoliang Yang	AVIC Xi'AN Flight Automatic
	Control Research Institute
SatA9	3rd Floor Meeting Room VIP 01
Recognition GNC	三层会议室 VIP 01
Chairs: Bing Cui	Beijing Institute of Technology
Ganghui Shen	Northwestern Polytechnical Univ.
13:30-13:38	SatA9.1
1058 Vision-Inertial Fusion	Navigation for Autonomous Landing
Navigation of Large Aircraf	ť
Jiahe Shen	AVIC Xi'AN Flight Automatic Control
	Research Institute
Xiaodong Zhang	AVIC Xi'AN Flight Automatic Control
	Research Institute
Yazhou Yue	AVIC Xi'AN Flight Automatic Control
	Research Institute
Qi Zhou	AVIC Xi'AN Flight Automatic Control
	Research Institute
Nan Liu	AVIC Xi'AN Flight Automatic Control
	Research Institute
Shu Wang	AVIC Xi'AN Flight Automatic Control
	Research Institute
13:38-13:46	SatA9.2
892 Magnetometer compe	ensation for magnetic interference in
aircraft maneuvers by using	g INS
Guanjie Wang	AVIC Xi'an Flight Automatic Control
	Research Institute
Yazhou Yue	AVIC Xi'an Flight Automatic Control
	Research Institute
Jiahang Dong	AVIC Xi'an Flight Automatic Control
	Research Institute
Qi Zhou	AVIC Xi'an Flight Automatic Control
	Research Institute
Haoming Wang	AVIC Xi'an Flight Automatic Control
	Research Institute
Jingjiang Wang	AVIC Xi'an Flight Automatic Control
	Research Institute
Haofeng Jiang	AVIC Xi'an Flight Automatic Control
	Research Institute
13:46-13:54	SatA9.3
1023 A Precision Evalu	ation Method for Initial Alignment
Algorithm of Rotating Inerti	al Navigation System
Zhu Jin	AVIC Xi'AN Flight Automatic Control
	Research Institute
Jingwen Huang	AVIC Xi'AN Flight Automatic Control

	Research Institute
Liu Gao	AVIC Xi'AN Flight Automatic Control
	Research Institute
Zhaozi ZU	AVIC Xi'AN Flight Automatic Control
	Research Institute
13:54-14:02	SatA9.4
357 On Target Recogn	ition of Cone Sleeve Based on
Aggregation Refinement N	letwork
Xiaoping Chen	University of Electronic Science and
	Technology of China
Zhenyu Zhou	University of Electronic Science and
	Technology of China
Chi Gao	Avic Chengdu Aircraft Design and
	Research Institute
Rui Hong	University of Electronic Science and
	Technology of China
Tiancai Wan	Avic Chengdu Aircraft Design and
	Research Institute
Yuyao Xie	Chengdu Plane Technology Co., Ltd
14:02-14:10	SatA9.5
1317 Analysis on the effect	t of the aerial refueling cone sleeve on
atmospheric data measure	ements
Yukai Feng	Chengdu Aircraft Design and
	Research Institute
Shuangshuang	Chengdu Aircraft Design and
Yang	Research Institute
Yi Guo	Chengdu Aircraft Design and
	Research Institute
Saihu Pu	Chengdu Aircraft Design and
	Research Institute
14:10-14:18	SatA9.6
222 NPU-OM: Non-cooper	ation Pursuit-evasion Universal-
frame of Orbital Maneuver.	a Case Study of rolling prediction
Game Control	
Wenjuan Li	Northwestern Polytechnical
	University
Shuoheng Ma	Northwestern Polytechnical
	University
Yuxin Li	Northwestern Polytechnical
	University
Yaoyao Guo	Northwestern Polytechnical
	University
Ximing Zhang	Xi'an Institute of Optics and
	Precision Mechanics of CAS
Hanlin Dong	Northwestern Polytechnical
	University

Aerospace System Engineering

Northwestern Polytechnical

Northwestern Polytechnical

Shanghai

University

University

SatA9.7

Research Institute AVIC Xi'AN Flight Automatic Control Weiping Yang

69

Bo Zhang

Zhiqiang Ma

14:18-14:26

Panfeng Huang

1240 Real-time Collision Detection Algorithm with Redundancy based on Intention and Trajectory Prediction

Jialong Yang	Beijing Institute of Technology
Zhen He	Beijing Institute of Technology
Zhongqi Sun	Beijing Institute of Technology
Yuanqing Xia	Beijing Institute of Technology
Changkun Du	Intelligent Science &
	Technology Academy Limited of

	CASIC	
14:26-14:34	SatA9.8	
1481 Fixed-time Sliding Mode Control for the Deployment of		
Space Tethered System with Input Saturation		
Xiaolei Li	Harbin Institute of Technology	
Baizheng Huan	Harbin Institute of Technology	
Qixin Kui	Harbin Institute of Technology	
Peng Cheng	Harbin Institute of Technology	
14:34-14:42	SatA9.9	
312 Predefined-time control for	or Mars entry vehicle under	
uncertainties		
Yifan Liu	Northwestern Polytechnical	
	University	
Lijing Gong	Northwestern Polytechnical	
	University	
Haidong Hu	Beijing Institute of Control	
	Engineering	
Ganghui Shen	Northwestern Polytechnical	
	University	
Weijian Zhao	Northwestern Polytechnical	
	University	
Sijie Wen	Northwestern Polytechnical	
	University	
Zhiqiang Ma	Northwestern Polytechnical	
	University	
Panfeng Huang	Northwestern Polytechnical	
	University	
14:42-14:50	SatA9.10	
443 RGB-D SLAM in indoor Dynamic Environment Based on		
Instance Segmentation		
Jingxuan Xiang	ChongQing University	
Yujuan Wang	ChongQing University	
Ruping Ceng	ChongQing University	
Qing Chen	ChongQing University	
Ziguo Liu	ChongQing University	
Zheng Zhou	ChongQing University	
Qing Zhang	ChongQing University	
Yufan Wang	ChongQing University	
14:50-14:58	SatA9.11	
626 Improved algorithm of RRT path planning and the		
application in complex environment		
Le Chang	Beijing Aerospace Times Laser	
	Inertial Technology Company,	

Dongyang Zhang

	Ltd
Yueling Dai	Beijing Aerospace Times Laser
	Inertial Technology Company,
	Ltd
Chao Yang	Beijing Aerospace Times Laser
	Inertial Technology Company,
	Ltd
44.50 45.00	SatA0 12

14:58-15:06 SatA9.12 761 Research on nonlinear dynamic modeling and vibration response simulation of laser inertial measurement damping svstem Xingfa Zhao Nanjing University of Science and Technology Wenhe Liao Nanjing University of Science and Technology Le Chang Beijing Aerospace Times Laser Inertial Technology Company, Ltd Dongyang Zhang Beijing Aerospace Times Laser Inertial Technology Company, Ltd Chao Yang Beijing Aerospace Times Laser Inertial Technology Company, Ltd 15:06-15:14 SatA9.13 961 Constrained disturbance rejection control design of dragfree spacecraft for test mass capture Shiji Zhang Beijing Institute of Technology Guotao Zhao Beijing Institute of Technology Qianjiao Xu Beijing Institute of Technology Bing Cui Beijing Institute of Technology Pengcheng Wang Innovation Academy for Microsatellites, Chinese Academy of Sciences Beijing Institute of Technology Yuanqing Xia 15:14-15:22 SatA9.14 1114 Design of Satellite Virtual Test Platform Based on Cosimulation Jin Li Institute of Remote Sensing Satellite, China Academy of Space Technology Hejie Sun Institute of Remote Sensing Satellite, China Academy of Space Technology Institute of Remote Sensing Qiong Ling Satellite, China Academy of Space Technology 15:22-15:30 SatA9.15 1450 基于动态传感器的无人机平面搜索研究 Haochen Yang Northwestern Polytechnical University Aijun Li Northwestern Polytechnical University Yong Guo Northwestern Polytechnical

Ltd

Beijing Aerospace Times Laser

Inertial Technology Company,
	University	Baozhen Nie
SatA10	3rd Floor Meeting Room VIP 02	Zhihao Cai
Precision GNC	三层会议室 VIP 02	Jiang Zhao
Chairs: Tianqing Liu	National Univ.of Defense Technology	Yingxun Wang
Jian Yang	South China University Of Technology	14:26-14:34
13:38-13:46	SatA10.1	1190 A neural
223 Multidisciplinary Des	sign Optimization for Launch Vehicle with	aircraft landing c
Solid Motors based on S	Sensitivity Analysis	Xi Huang
Jia Zheng	Beihang Univ.	Sipeng Song
Wanchun Chen	Beihang Univ.	
Qi Yu	Beihang Univ.	Xinxin Wang
13:46-13:54	SatA10.2	Qingxian Li
1042 Attitude Control L	Design of Bi-Copter Using Incremental	Pengyuan Qi
Nonlinear Dynamic Inve	rsion Approach	14:34-14:42
Jia Zheng	Beihang Univ.	1322 Composite
Wanchun Chen	Beihang Univ.	Maneuver Contr
Qi Yu	Beihang Univ.	Hao Teng
13:54-14:02	SatA10.3	13:4 Sapsuga Lu
1374 Fault Diagnosis o	f the Satellite Attitude Control System	Jianzhong Qia
Based on Tradaboost		Lei Guo
Luxuan Li	Beihang Univ.	14:42-14:50
Xurui Bao	Beihang Univ.	1178 Iterative
Yan Yang	Beihang Univ	Entry Trajectory
Hua Song	Beihang Univ	Wenjie Su
14·02-14·10	SatA10.4	13.5 Jajajahano Gui
1031 Ultrasound Chan	nel Attention-Full Resolution Residual	Rui Zhong
Network for Local Sound	Speed Estimation	14:50-14:58
Yihang Wei	Beibang Univ	916 Integrated
Shangchun Fan	Beihang Univ	Micro Unmanne
Pena Liu	Tianiin Univ	Bo Zhang
Chuijan Ren	Beibang Univ	Zhihao Cai
Zihao Wang	Beihang Univ	Jiang Zhao
Xiaolei Qu	Beihang Univ	Yingxun Wang
14:10-14:18	SatA10.5	14:58-15:06
1284 A Dynamic Magne	tometer Calibration Algorithm based on	426 On-orbit Ser
IEKE state observers	ometer Calibration Algonithin based on	Strategy Genetic
Meng Yang	Beihang Univ	Yabo Hao
Xinmiao Teng	CNPC Engineering Technology	Wenbo Dai
Xiriinido reng	Research and Development	Shenggang Liu
	Company Limited	Mina Xu
Lievin Pena		Xue Bai
LIEAITTEIIg	Research and Development	15:06-15:14
		127 Multi-satellit
Lingling Wang	Beihang Univ	Improved Dynam
Li Fu	Beihang Univ	Yabo Hao
Kang Guan	CNPC Engineering Technology	Wenho Dai
Rang Oddin	Research and Development	Shenggang Liu
		Ming Yu
Xin Xiong		Xue Rei
, and raong	Research and Development	15.1/-15.00
		722 Collision Di
14.18-14.26	SatA10 6	1 32 CONSION RIS
14.10-14.20	SatA 10.0	Zhanwei Lie
303 Addressing the AX=	T B Problem in Trajectory Alignment for	∠nanwei Hu

Baozhen Nie	Beihang Univ.
Zhihao Cai	Beihang Univ.
Jiang Zhao	Beihang Univ.
Yingxun Wang	Beihang Univ.
14:26-14:34	SatA10.7
1190 A neural network-based me	thod for online prediction of
aircraft landing distance	
Xi Huang	Beihang Univ.
Sipeng Song	AVIC Xi'AN Flight Automatic
	Control Research Institute
Xinxin Wang	Beihang Univ.
Qingxian Li	Beihang Univ.
Pengyuan Qi	Beihang Univ.
14:34-14:42	SatA10.8
1322 Composite Disturbance Separ	ation and Utilization-Based
Maneuver Control for Spacecrafts W	/ith Reaction Wheel Errors
Hao Teng	Beihang Univ.
:482pkuga Lu	Beihang Univ.
Jianzhong Qiao	Beihang Univ.
Lei Guo	Beihang Univ.
14:42-14:50	SatA10.9
1178 Iterative Covariance Steering	g for Stochastic Atmospheric
Entry Trajectory Optimization	
Wenjie Su	Beihang Univ.
:54ajahao Gui	Beihang Univ.
Rui Zhong	Beihang Univ.
14:50-14:58	SatA10.10
916 Integrated Control of High Dyn	amic Position and Attitude for
Micro Unmanned Aerial Vehicles	
Bo Zhang	Beihang Univ.
Zhihao Cai	Beihang Univ.
Jiang Zhao	Beihang Univ.
Yingxun Wang	Beihang Univ.
14:58-15:06	SatA10.11
426 On-orbit Servicing Mission Plan	ning Based on Greedy
Strategy Genetic Algorithm	
Yabo Hao	Beihang Univ.
Wenbo Dai	Beihang Univ.
Shenggang Liu	Beihang Univ.
Ming Xu	Beihang Univ.
Xue Bai	Beihang Univ.
15:06-15:14	SatA10.12
427 Multi-satellite Imagine Mission F	Planning Algorithm Based on
Improved Dynamic Programming Alg	gorithm
Yabo Hao	Beihang Univ.
Wenbo Dai	Beihang Univ.
Shenggang Liu	Beihang Univ.
Ming Xu	Beihang Univ.
Xue Bai	Beihang Univ.
15:14-15:22	SatA10.13
732 Collision Risk Quantification Me	thod for Trajectories with
Uncertainty	

383 Addressing the AX=YB Problem in Trajectory Alignment for Precision Analysis

Fengzhe Zhang

	Systems Engineering
Jinyong Chen	Beihang Univ.
Rui Zhou	Beihang Univ.
15:22-15:30	SatA10.14
532 Design and Control	Method of Biomimetic Gill Side Window
ctuator for Ducted Fan U	JAV
Youhuizi Lu	Beihang Univ.
Xinyu Cai	Beihang Univ.
Zhen Dong	Hangzhou Innovation Institute
Xiao Zhang	Beihang Univ.
SatA11	3rd Floor Aisle
Poster Session 1	三层廊厅
Chairs: Bin Jiang Nan	jing Univ. of Aeronautics and Astronautics
Youmin Zhang	Concordia Univ.
13:30-15:30	SatA11.1
1184 Self-Organized Re	eynolds Swarms of Unmanned Aerial
Vehicles in Dense Envir	ronments
Yaozu Ding	Tiangong Univ.
Hui Xiong	Tiangong Univ.
Xiuzhi Shi	Tiangong Univ.
Jinzhen Liu	Tiangong Univ.
Yimei Chen	Tiangong Univ.
Jiaxing Wang	AVIC Shenvang Aircraft Design
training training	and Research Institute
13:30-15:30	SatA11.2
131 Trajectory control	of car-like vehicles and altitude control of
quadrotors with variable	loads under air-ground specific tasks
Lei Cui	Tianiin Univ
13:30-15:30	SatA11.3
1320 A Modified Eived 1	Fime Terminal Sliding Mode Controller With
Extended State Obsen	er for USVs Trajectory Tracking
Kaiwei Zhu	Peking Univ
Shihan Kong	Peking Univ.
Buifong Ean	Poking Univ.
Chonghua Li	Guangzhou Shanghui Claaning
Chenghua Li	Suangzhoù Shenghur Cleaning
lunahi Vu	Service Co., Ltd
	Peking Univ.
13:30-15:30	SatA11.4
1337 Reconfiguration C	ontrol for Ground and Aerial Robots within
Underground Tunnel En	nvironment
Kenan Yong	Nanjing Univ. of Aeronautics and
	Astronautics
Mou Chen	Nanjing Univ. of Aeronautics and
	Astronautics
13:30-15:30	SatA11.5
1361 Simulation and	analysis of high and low temperature
characteristics of airbor	ne gas-liquid hybrid energy systems
Hongjun Pang	Qingan Group .,Co., Ltd
Weijuan Zheng	Qingan Group .,Co., Ltd
13:30-15:30	SatA11.6
156 Mode logic design of	of the autothrottle system for civil aircraft
considering take-off and	l go around scenarios
Hui Shao	Commercial Aircraft Corporation
	Commoroidi / morait Comporation

Kezhi Zhang	Commercial Aircraft Corporation
	of China
Feng Yue	Commercial Aircraft Corporation
	of China
13:30-15:30	SatA11.7
1725 An Off-Axle Full-Ti	railer Vehicle Control Method Based on
Adaptive LQR	
Guochen Niu	Civil Aviation Univ. of China
Hui Xia	Civil Aviation Univ. of China
Dandan Hu	Civil Aviation Univ. of China
13:30-15:30	SatA11.8
421 Multi-UAV Collabora	ative Search Decision Making
via Consensus-Based P	Potential Game
Daifeng Zhang	Qilu Univ. of Technology
Jiliang Zhang	Taishan College of Science and
	Technolog
13:30-15:30	SatA11.9
465 Design of Active L	Disturbance Rejection Controller for UA
Aerial Refueling Based	on Hybrid Pigeon-inspired Optimizatio
Algorithm with Marine P	redators
Jiawei Gong	AVIC Shenyang Aircraft Design and
	Research Institute
Yanming Fan	Graduate School of Chinese
	Aeronautical Establishmen
13:30-15:30	SatA11.10
541 Aerodynamic Par	ameter Online Identification Based o
LSTM-BP Hybrid Netwo	rk
Yutao Zhuang	National Key Laboratory o
	Complex System Control and
	Intelligent Agent Cooperation
Mingrui Hao	National Key Laboratory o
	Complex System Control and
	Intelligent Agent Cooperation
13:30-15:30	SatA11.11
691 A consensus sliding	g mode formation control of multiple fixed
wing UAVs for autonom	ous aerial refueling
Tieli Niu	Northwestern Polytechnical Univ
Ban Wang	Northwestern Polytechnical Univ
Ni Li	Northwestern Polytechnical Univ
Youmin Zhang	Concordia Univ
Lingxia Mu	Xi'an Univ. of Technolog
Jiangtao Huang	China Aerodynamics Research and
	Development Cente
Xin Du	China Aerodynamics Research and
	Development Cente
13:30-15:30	SatA11.12
696 Dynamic Path Plan	ning for AUV Based on Improved Doub
DQN Algorithm under O	cean Environment
Yujing Yang	Harbin Engineering Univ
Enjiao Zhao	Harbin Engineering Univ
Yuxin Zhao	Harbin Engineering Univ
13:30-15:30	SatA11.13

 Dynamic Event-Triggered Distributed Optimal Control c Nonlinear Multi-Agent Systems Based on Integral Reinforcemen.

		Learning
Y	Liaoning Univ. of Technology	Ying Xu
	Liaoning Univ. of Technology	Kewen Li
M	Liaoning Univ. of Technology	Yongming Li
14	SatA11.14	13:30-15:30
	sign for Unmanned Aerial Vehicles with	737 Robust Controller D
		Unsymmetrical Wing Da
992	AVIC XI'AN Flight Automatic Control	Yunyan Wu
Dire	Research Institut	Denshui Mana
	AVIC XIAN Flight Automatic Control	Donghui wang
U		W/m L in
M	Research Institut	
IV	AV/IC Xi'AN Flight Automatic Control	
ĸ	Research Institut	rianpeng riuang
- 11	AV/IC Xi'AN Flight Automatic Control	Sui Xu
2	Research Institut	Sui Xu
3 2	SatA11 15	13.30-15.30
JI	十差件校制文明	784 喜姓能王人和初尝
r V	<i>土有吨在则头政</i> Chonadu Aircraft Dosign and	764 <i>同住能儿八机恍见</i>
×	Research Institute of Aviation	100 000
	Industry	
107	Chenadu Aircraft Design and	Bo Ma
107	Research Institute of Aviation	boima
JI		
н	Chengdu Aircraft Design and	Chengang Tao
	Research Institute of Aviation	enongung rue
х	Industry	
~	Chengdu Aircraft Design and	Zhaoxu Yang
С	Research Institute of Aviation	
	Industry	
н	Chengdu Aircraft Design and	Tiancai Wan
	Research Institute of Aviation	
С	Industry	
	Chengdu Aircraft Design and	Yong Tang
1:	Research Institute of Aviation	
108	Industry	
me	SatA11.16	13:30-15:30
Y	d Flight Trajectory Prediction Using Time	922 Deep Learning-Bas
к		Series Decomposition
	Beijing Institute of Technology	Yue Liu
С	Beijing Aerospace Institute for	Jing Sun
	Metrology and Measurement	
С	Technology	
Li	Beijing Institute of Technology	Wei Dong
v	Beijing Institute of Technology	Lele Zhang
	Beijing Institute of Technology	Chunvan
F	Boijing montato or roomitology	enanyan
- 		Wang
	Beijing Institute of Technology	Wang Fang Deng
	Beijing Institute of Technology SatA11.17	Wang Fang Deng 13:30-15:30
	Beijing Institute of Technology SatA11.17 试验台的舵面加载系统研制	Wang Fang Deng 13:30-15:30 928 面向飞控半实物仿真
1; 	Beijing Institute of Technology SatA11.17 试验台的舵面加载系统研制 AVIC Shenyang Aircraft Design and	Wang Fang Deng 13:30-15:30 928 面向飞控半实物仿词 Dapeng Zhou
 1: 111 <i>Vel</i> Ji	Beijing Institute of Technology SatA11.17 试验台的舵面加载系统研制 AVIC Shenyang Aircraft Design and Research Institute	Wang Fang Deng 13:30-15:30 928 面向飞控半实物仿实 Dapeng Zhou

	Research Institut
Yunji Gao	AVIC Shenyang Aircraft Design an
	Research Institut
Ming Zhang	AVIC Shenyang Aircraft Design ar
	Research Institut
Wenyi Sun	
13:30-15:30	SatA11.1
992 Intelligent Optimization	n Method of Control Parameters for
Direct Lift Landing of Carri	er-based Aircraft
Ming Yan	Dalian Univ. of Technolog
Chong Zhen	AVIC Xi'AN Flight Automatic Contr
	Research Institu
Man Zhang	AVIC Xi'AN Flight Automatic Contro
	Research Institu
Kai Liu	Dalian Univ. of Technolog
13:30-15:30	SatA18.1
3 多星座条件下低轨航天器	署定位性能 STK 仿真分析
Jiangfeng Lai	Space Engineering Univ
Yanfeng Hu	Space Engineering Univ
Xiangtai Ma	Space Engineering Univ
Wenjian Li	Unit 9672
13:30-15:30	SatA11.2
107 基于非线性动态逆的主	主动电驱式对接机构位姿跟踪方法
Jinglong Liu	Shanghai Institute of Aerospac
	System Engineerin
Haitao Jing	Nanjing Univ. of Aeronautics an
	Astronautio
Xiaolong Ma	Shanghai Institute of Aerospac
	System Engineering
Chenguang Xu	Shanghai Institute of Aerospac
	System Engineerin
Huayong Qiu	Shanghai Institute of Aerospac
	System Engineerin
Chongteng Zhang	Shanghai Institute of Aerospac
10.00.15.00	System Engineerin
13:30-15:30	SatA11.2
108 A Deep Learning Pred	lictor-Proportional Guidance Correcto
method for Rocket Decele	ration Guidance
Yue Zhao	Beijing Institute of Technolog
Kun Guo	Beijing Institute of Mechanical an
Oh e e e Vu	Electrical Engineerin
Cheng Xu	Beijing Institute of Mechanical an
Ohardi	Electrical Engineerin
	Beijing Institute of Technolog
	Beijing Institute of Technolog
ran Zneng	Beijing Institute of Technolog
	Boiling Institute of Lespholog
Fenfen Xiong	
Fenfen Xiong 13:30-15:30	SatA11.2
Fenfen Xiong 13:30-15:30 111 Dynamic Structural Re	SatA11.2 SatA11.2
Fenfen Xiong 13:30-15:30 111 Dynamic Structural Re Vehicles Based on Stocha	SatA11.2 Silability Analysis of Hypersonic stic Processes
Fenfen Xiong 13:30-15:30 111 Dynamic Structural Re Vehicles Based on Stocha Jiale He	SatA11.2 SatA11.2 Iliability Analysis of Hypersonic stic Processes Nanjing Univ. of Aeronautics an
Fenfen Xiong 13:30-15:30 111 Dynamic Structural Re Vehicles Based on Stocha Jiale He	SatA11.2 SatA11.2 Viability Analysis of Hypersonic stic Processes Nanjing Univ. of Aeronautics an Astronautic

Yuhui Wang	Nanjing Univ. of Aeronautics and
	Astronautics
Zhongge Guo	Nanjing Univ. of Aeronautics and
	Astronautics
13:30-15:30	SatA11.23
117 Study On Design and	Verification Method of Civil Aircraft
Onboard Flight Manageme	ent System Performance Database
Lizhao Liu	Shanghai Aircraft Design and
	Research Institute
13:30-15:30	SatA11.24
119 Ship Detection via Cel	nter Segmentation and Angle Predictio
Yongchun Lei	China Helicopter Research and
	Development Institute
Hao Meng	China Helicopter Research and
	Development Institute
Lei Li	China Helicopter Research and
	Development Institute
Jinlei Ma	China Helicopter Research and
	Development Institute
Hongwei	China Helicopter Research and
Zhang	Development Institute
13:30-15:30	SatA11.25
121 Optimal Parameter Es	stimation-Assisted Event-Triggered
Model Predictive Guidance	e for Launch Vehicle
Tengfei Zhang	Northwestern Polytechnical Univ
Hua Su	Northwestern Polytechnical Univ
a 1:	
Songyu Liu	Northwestern Polytechnical Univ
Songyu Liu Chunlin Gong	Northwestern Polytechnical Univ
Chunlin Gong 13:30-15:30	Northwestern Polytechnical Univ. Northwestern Polytechnical Univ. SatA11.26
Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的洞	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法
Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的前 Rui Cao	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法 Yangzhou Univ
Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的洞 Rui Cao Huitao Lv	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and
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Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的清 Rui Cao Huitao Lv	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research
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Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的前 Rui Cao Huitao Lv Liang Xu	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Lto Shenyang Aircraft Design and
Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的前 Rui Cao Huitao Lv Liang Xu	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.20 高速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Lto Shenyang Aircraft Design and Research Institute Yangzhou
Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的清 Rui Cao Huitao Lv Liang Xu	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Lto Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research
Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的前 Rui Cao Huitao Lv Liang Xu	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Lto Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co Lto
Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的; Rui Cao Huitao Lv Liang Xu	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Shenyang Aircraft Design and
Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的i Rui Cao Huitao Lv Liang Xu	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 育速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Shenyang Aircraft Design and Research Institute Yangzhou
Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的/ Rui Cao Huitao Lv Liang Xu Yang Yang	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research
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Songyu Liu Chunlin Gong 13:30-15:30 124 考虑多禁飞区规避的; Rui Cao Huitao Lv Liang Xu Yang Yang 13:30-15:30 134 软件架构演进: 伺服就 Erfeng Su	Northwestern Polytechnical Univ Northwestern Polytechnical Univ SatA11.26 高速巡航飞行器轨迹优化方法 Yangzhou Univ Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Shenyang Aircraft Design and Research Institute Yangzhou Collaborative Innovation Research Institute Co., Ltd Stat11.27 系统软件架构的创新与验证 AVIC Xi' AN Flight Automatio
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140 Similarity Parameters	s of Inviscid High Speed Flows Around
Affine Similar Bodies	
Haoliang Wang	The First Academy of China
	Aerospace Science and Technology
	Corporation
Mengying Ma	The First Academy of China
	Aerospace Science and Technology
	Corporation
Xiaoyuan Ma	The First Academy of China
	Aerospace Science and Technology
	Corporation
13:30-15:30	SatA11.29
145 A denoising method t	for MEMS avroscopes based on
improved wavelet transfo	rm
Mina Liu	Navy Submarine Academy
Wenlong Wang	Navy Submarine Academy
Zhaozhen liang	Navy Submarine Academy
Na Zhang	Navy Submarine Academy
linhui Liu	Navy Submarine Academy
12:20 15:20	Navy Submanne Academy
15.50-15.50	SalATT.SU
150 Orbit Plane Control	of Inclined Geosynchronous Satellite
Based on Particle Swarm	Optimization
Xinglong Wang	China Academy of Space
	Technology
Ran Wang	China Academy of Space
	Technology
Jiaming Wang	China Academy of Space
	Technology
13:30-15:30	SatA11.31
153 Two-Layer Adaptive	Composite Anti-Disturbance Control fo
Robotic Manipulator With	Multiple Disturbances
Lina Zhang	Beijing Jiaotong Univ.
Xiuming Yao	Beijing Jiaotong Univ.
13:30-15:30	SatA11.32
155 Design of Civil Aircra	ft Surveillance System Based on BeiDo
Short Message	
Lei Guo	Shanghai Aircraft Design and Research
	Institute
Zhiming Zheng	Shanghai Aircraft Design and Research
	Institute
Wei Li	
	Shanghai Aircraft Design and Research
	Shanghai Aircraft Design and Research Institute
13:30-15:30	Shanghai Aircraft Design and Research Institute SatA11.33
13:30-15:30	Shanghai Aircraft Design and Research Institute SatA11.33 w Design of Launch Vehicles via Deen
13:30-15:30 158 Robust Guidance Lau Reinforcement Learning A	Shanghai Aircraft Design and Research Institute SatA11.33 w Design of Launch Vehicles via Deep
13:30-15:30 158 Robust Guidance Lau Reinforcement Learning A	Shanghai Aircraft Design and Research Institute SatA11.33 w Design of Launch Vehicles via Deep Algorithm Beijing Aerospace Automatic
13:30-15:30 158 Robust Guidance Lau Reinforcement Learning A Chenhui Jia	Shanghai Aircraft Design and Research Institute SatA11.33 w Design of Launch Vehicles via Deep Algorithm Beijing Aerospace Automatic Control Institute
13:30-15:30 158 Robust Guidance Lau Reinforcement Learning A Chenhui Jia	Shanghai Aircraft Design and Research Institute SatA11.33 w Design of Launch Vehicles via Deep Algorithm Beijing Aerospace Automatic Control Institute Beijing Aerospace Automatic
13:30-15:30 158 Robust Guidance Lau <i>Reinforcement Learning A</i> Chenhui Jia Xiaodong Liu	Shanghai Aircraft Design and Research Institute SatA11.33 w Design of Launch Vehicles via Deep Algorithm Beijing Aerospace Automatic Control Institute Beijing Aerospace Automatic
13:30-15:30 158 Robust Guidance Law Reinforcement Learning A Chenhui Jia Xiaodong Liu	Shanghai Aircraft Design and Research Institute SatA11.33 w Design of Launch Vehicles via Deep Algorithm Beijing Aerospace Automatic Control Institute Beijing Aerospace Automatic Control Institute Beijing Aerospace Automatic
13:30-15:30 158 Robust Guidance Law Reinforcement Learning A Chenhui Jia Xiaodong Liu Xiaomin Li	Shanghai Aircraft Design and Research Institute SatA11.33 w Design of Launch Vehicles via Deep Algorithm Beijing Aerospace Automatic Control Institute Beijing Aerospace Automatic Control Institute Beijing Aerospace Automatic
13:30-15:30 158 Robust Guidance Law Reinforcement Learning A Chenhui Jia Xiaodong Liu Xiaomin Li	Shanghai Aircraft Design and Research Institute SatA11.33 w Design of Launch Vehicles via Deep Algorithm Beijing Aerospace Automatic Control Institute Beijing Aerospace Automatic Control Institute Beijing Aerospace Automatic Control Institute Beijing Aerospace Automatic

Control Institute

Beijing Aerospace Automatic

Zhaolei Wang

	Control Institute
Ran Li	Beijing Aerospace Automatic
	Control Institute
13:30-15:30	SatA11.34
159 Feasibility analysis	s of participate in UTC calculations using
Beidou PPP time link	
Xiaolei Wang	Beijing Satellite Navigation Cente
Jingxuan Li	Beijing Satellite Navigation Cente
13:30-15:30	SatA11.35
162 基于非线性优化双	【目 VIO 的在线时间偏差标定方法
Ziyu Cao	Northwestern Polytechnical Univ
13:30-15:30	SatA11.36
164 智能技术在飞控领	预域应用研究综述
Chao Jiang	AVIC Xi'AN Flight Automatic Contro
	Research Institu
Yuwei Cui	AVIC Xi'AN Flight Automatic Contro
	Research Institu
Wenjin Liu	AVIC Xi'AN Flight Automatic Contro
	Research Institu
13:30-15:30	SatA11.37
170 Design of New Re	al-time Online ECM Performance
Evaluation Scheme of	Radar Seeker
Longiun Zhai	Naval Aviation Univ
Wenguan Feng	Beihang Univ
Yidong Wang	Naval Research Academy
Jun Fang	Naval Aviation Univ
13:30-15:30	SatA11.38
171 Design of a novel	distributed diffusion maximum correntron
CKE algorithm	
lingang Liu	Harbin Institute of Technology
Guorui Cheng	Harbin Institute of Technology
Shenmin Song	Harbin Institute of Technology
12:20 15:20	
13.30-13.30	SalATT.S
174 Research on airwo	Sitniness test technology of engineering
simulator based on hig	
Kui Xu	Northwestern Polytechnical Univ.
Chengtu Wu	Northwestern Polytechnical Univ.
Shengliang Wu	Shanghai Aircraft Design and
	Research Institute
Jiawei Yang	Shanghai Aircraft Design and
	Research Institute
13:30-15:30	SatA11.40
178 Threat Prediction	1 Method for Large-Scale Beyond-Visua
Range Air Confrontatio	n
Leyan Li	Air Force Engineering Univ
Maolong Lv	Air Force Engineering Univ
Ao Wu	Air Force Engineering Univ
Anxin Guo	Air Force Engineering Univ
Qi Song	Air Force Engineering Univ
Qixuan Yin	Air Force Engineering Univ
13:30-15:30	SatA11.41
179 Research on Sync	chronization Mechanism of Time Triggered
Ethernet	
Yichuan Song	AVIC Xi' AN Flight Automation
nonuan oong	

	Control Research Institute
Cheng Zhou	AVIC Xi' AN Flight Automatic
	Control Research Institute
Yige Luo	AVIC Xi' AN Flight Automatic
	Control Research Institute
Jianjun Huang	AVIC Xi' AN Flight Automatic
	Control Research Institute
13:30-15:30	SatA11.42
182 Optimization Design of	Two-impulse Abort Trajectory for a
Crewed Lunar Mission Base	ed on the Quasi-Lambert Problem
Tianshan Dong	Beijing Institute of Spacecraft
	System Engineering
Wenyan Zhou	Beijing Institute of Spacecraft
	System Engineering
Lin Lu	National University of Defense
	Technology
Chao Han	Beihang Univ.
13:30-15:30	SatA11.43
187 Research on General S	Software Architecture of Flight Contrc
and Management System fo	or UAV
Delong Cui	AVIC The First Aircraft Institute
Xin Liu	AVIC The First Aircraft Institute
Jiangjiang Qi	The First Military Representative
	Bureau Resident in Xi'AN Region
	for The Air Force
Anquan Sun	The First Military Representative
	Bureau Resident in Xi'AN Region
	for The Air Force
13:30-15:30	SatA11.44
188 电传飞行控制系统余度	管理监控阈值研究
Weiwei Yang	AVIC Xi' AN Flight Automatic
	Control Research Institute
Zhengyuan Liu	AVIC Xi' AN Flight Automatic
	Control Research Institute
Yue Chi	AVIC Xi' AN Flight Automatic
	Control Research Institute
13:30-15:30	SatA11.45
192 Estimation of Melt Pond	d Depth Based on Deep Learning
Zhihao Wang	Aircraft Strength Research Institute
Shuaishuai Lyu	Aircraft Strength Research Institute
Xiaoyi Shen	Nanjing Univ.
13:30-15:30	SatA11.46
193 Full Flight Envelope C	Controllability Assessment Method fo
Supersonic Transport Aircra	ft
Xun Sun	Beihang Univ.
Shang Tai	Beihang Univ.
Lixin Wangi	Beihang Univ.
Ting Yue	Beihang Univ.
Hailiang Liu	•
	Beihang Univ.
13:30-15:30	Beihang Univ. SatA11.47
13:30-15:30 194 On the Security Enha	Beihang Univ. SatA11.47 ncement Method for Hybrid Software
13:30-15:30 194 On the Security Enhai Based on Container of Fligh	Beihang Univ. SatA11.47 ncement Method for Hybrid Softward tt Control System and VMS
13:30-15:30 194 On the Security Enhai Based on Container of Fligh Yuxiang Zhang	Beihang Univ. SatA11.47 Incement Method for Hybrid Software Int Control System and VMS AVIC First Aircraft Design and

Yi Yang	AVIC First Aircraft Design and
	Research Institute
Yu Li	AVIC First Aircraft Design and
	Research Institute
Xin Liu	AVIC First Aircraft Design and
	Research Institute
Delong Cui	AVIC First Aircraft Design and
	Research Institute
13:30-15:30	SatA11.48
201 Research on vibi	ration isolation of precision electroni
equipment of spacecraft	under severe load
Ke Duan	Xi'an ASRIC Aviation Technology
	Co., Ltd.
Feng Hou	Xi'an ASRIC Aviation Technology
	Co., Ltd.
Yuxing Duan	XI'an ASRIC Aviation Technology
10.00.15.00	Co., Ltd.
13:30-15:30	SatA11.49
204 面向高速直升机的主	E动侧杆操纵装置应用思路与展望
An Yan	AVIC XI'AN Flight Automatic Control
	Research Institute
Zhengyong Zhan	AVIC Xi'AN Flight Automatic Control
	Research Institute
Zhao Ma	AVIC Xi'AN Flight Automatic Control
	Research Institute
Song Zhang	AVIC Xi'AN Flight Automatic Control
	Research Institute
Wuji Sun	AVIC Xi'AN Flight Automatic Control
	Research Institute
13:30-15:30	SatA11.50
205 Research on Obstac	cle Avoidance Motion Planning of Space
205 Research on Obstac Manipulator Based on R	cle Avoidance Motion Planning of Space einforcement Learning
205 Research on Obstac Manipulator Based on R Zixuan Zhang	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China
205 Research on Obstac Manipulator Based on R Zixuan Zhang	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Institute of Technology
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Institute of Technology Beijing Aerospace Institute for
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor with
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor with
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor with Beijing Institute of Technology
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor with Beijing Institute of Technology Ordnance Science and Research
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor witi Beijing Institute of Technology Ordnance Science and Research Academy of China
205 Research on Obstact Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin Peng Huang	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor witi Beijing Institute of Technology Ordnance Science and Research Academy of China Northwest Industries Group
205 Research on Obstact Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin Peng Huang	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor with Beijing Institute of Technology Ordnance Science and Research Academy of China Northwest Industries Group Company'Ltd.
205 Research on Obstact Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin Peng Huang Junhui Li	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor with Beijing Institute of Technology Ordnance Science and Research Academy of China Northwest Industries Group Company'Ltd. Beijing Institute of Technology
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin Peng Huang Junhui Li Junfang Fan	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor with Beijing Institute of Technology Ordnance Science and Research Academy of China Northwest Industries Group Company'Ltd. Beijing Institute of Technology Beijing Information Science and
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin Peng Huang Junhui Li Junfang Fan	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor witi Beijing Institute of Technology Ordnance Science and Research Academy of China Northwest Industries Group Company'Ltd. Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin Peng Huang Junhui Li Junfang Fan 13:30-15:30	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor witi Beijing Institute of Technology Ordnance Science and Research Academy of China Northwest Industries Group Company'Ltd. Beijing Institute of Technology Beijing Information Science and Technology Univ.
205 Research on Obstact Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin Peng Huang Junhui Li Junfang Fan 13:30-15:30 210 Impact Angle Cont	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor witi Beijing Institute of Technology Ordnance Science and Research Academy of China Northwest Industries Group Company'Ltd. Beijing Institute of Technology Beijing Information Science and Technology Univ. SatA11.52 rol Guidance Law Against Maneuvering
205 Research on Obstac Manipulator Based on R Zixuan Zhang Wei Dong Chunyan Wang Jing Sun 13:30-15:30 206 Prescribed Perform Distance Limitation Shiwei Chen ShiYao Lin Peng Huang Junhui Li Junfang Fan 13:30-15:30 210 Impact Angle Cont Fargets	cle Avoidance Motion Planning of Space einforcement Learning The 208 Research Institute of China Ordnance Industries Beijing Institute of Technology Beijing Aerospace Institute for Metrology and Measurement Technology SatA11.51 ance Guidance of LBRS Interceptor with Beijing Institute of Technology Ordnance Science and Research Academy of China Northwest Industries Group Company'Ltd. Beijing Information Science and Technology Univ. SatA11.52 rol Guidance Law Against Maneuvering

Ming Yang	Harbin Institute of Technology
Songyan Wang	Harbin Institute of Technology
Tao Chao	Harbin Institute of Technology
13:30-15:30	Sat A11.53
214 Cooperative Path F	Planning and Prescribed Performance
Control with Input Satur	ration for UAV Formation
Shichao Ma	AVIC Xi'AN Flight Automatic Control
	Research Institute
Wenqian Zhang	AVIC Xi'AN Flight Automatic Control
	Research Institute
Xianglun Zhang	AVIC Xi'AN Flight Automatic Control
	Research Institute
Qiang Tang	AVIC Xi'AN Flight Automatic Control
	Research Institute
Zhiyu Li	AVIC Xi'AN Flight Automatic Control
	Research Institute
Yukun Yang	AVIC Xi'AN Flight Automatic Control
	Research Institute
Hao Li	AVIC Xi'AN Flight Automatic Control
	Research Institute
Jiayun Wen	AVIC Xi'AN Flight Automatic Control
	Research Institute
13:30-15:30	SatA11.54
215 Unified Control Arc	hitecture for Hybrid UAVs Using
Incremental Nonlinear I	Dynamic Inversion
Xutao Qu	Beihang Univ.
Zhihao Cai	Beihang Univ.
Yingxun Wang	Beihang Univ.
13:30-15:30	SatA11.55
217 基于随机振动理论	的收放式应急冲压口疲劳寿命评估
Pan Xie	Qing'an Group Co., Ltd.
Lan Gao	Qing'an Group Co., Ltd.
Pengfei Zhu	Qing'an Group Co., Ltd.
13:30-15:30	SatA11.56
218 不确定环境下多机	器人协同区域搜索与覆盖方法
Kai Cao	Xi' an Technological Univ.
Yunbo Wei	Xi' an Technological Univ.
Song Gao	Xi' an Technological Univ.
Yangguan Chen	Univ. of California
Kun Yan	Xi' an Technological Univ.
Yufei Dina	Xi' an Technological Univ.
13:30-15:30	SatA11.57
224 TTE 网络在飞控系	统中的应用
Linguan Jiao	AVIC Xi'AN Flight Automatic Control
Linguali tiat	Research Institute
Dandan Tang	AVIC Xi'AN Flight Automatic Control
Bandan lang	Research Institute
Yige Luo	AV/IC Xi'AN Flight Automatic Control
I Igo Luo	Research Institute
lianiun Huang	AV/IC Xi'AN Flight Automatic Control
Jianjun Hually	AVIC ALAN FIGHLAUDHAUC CONTO
12:20 15:20	Research institute
13.30-13.30	SatA11.58
∠∠J 电离层闪烁环境下	PPP/IINS 狙台·守肌性能分析
Jiannua Cheng	Harbin Engineering Univ.

	Harbin Engineering Univ.	Sixiang Cheng
Yang Xu	Harbin Engineering Univ.	Bing Qi
13:30-15:3	Harbin Engineering Univ.	Shilong Fan
232 An Impro	Harbin Engineering Univ.	Guojing Zhao
Identification	Harbin Engineering Univ.	Sicheng Chen
Xiang Xu	SatA11.59	13:30-15:30
	动线系运转阻尼影响研究	226 摩擦副表面结构对
Zhenyu Ya	Department of Naval Armament	Guangfeng Qi
Junpeng W	Qing'an Group Co., Ltd.	Tingting Wang
	Qing'an Group Co., Ltd.	Lisong Cao
Fu Wang	SatA11.60	13:30-15:30
	es predictive model for Remaining Usefu	227 WR-IMT: A time ser
13:30-15:3		Life Prediction
236 Event-tr	Shanghai Jiao Tong Univ.	Fei Xiao
Under Actua	Shanghai Jiao Tong Univ.	Haibo Xing
Bohan Li	Shanghai Aircraft Airworthiness	Jun Huang
Qing Gao	Certification Center of CAAC	
Zhenqian V	Shanghai Jiao Tong Univ.	Jianxun Li
Wei Wang	SatA11.61	13:30-15:30
Jinhu Lyu	nd Design of Experiments for Industria	228 Fault Recognition
13:30-15:3		Data
237 Researd	Shanghai Jiao Tong Univ.	Chuandong
Aerial Vehicl		Wang
Xiaoya Xu	Shanghai Jiao Tong Univ.	Wenxuan
		Zhang
	Shanghai Jiao Tong Univ.	Fei Xiao
Weijie Zhu	Shanghai Aircraft Airworthiness	Jun Huang
	Certification Center of CAAC	
	Shanghai Jiao Tong Univ.	Jianxun Li
Ran Li	SatA11.62	13:30-15:30
	erative Hunting Based on Cruise-Trap	229 UAV Swarm Coo
		Capture
Xiufeng Fu	AVIC Shenyang Aircraft Design and	Haiyang Bi
	Research Institute	
	AVIC Shenyang Aircraft Design and	Mingsheng Zhao
Fan Zhang	Research Institute	
	AVIC Shenyang Aircraft Design and	Xiangyu Sun
	Research Institute	
Pengcheng	AVIC Shenyang Aircraft Design and	Lidong Zhao
Pengcheng 13:30-15:3	AVIC Shenyang Aircraft Design and Research Institute	Lidong Zhao
Pengcheng 13:30-15:3 239 Review	AVIC Shenyang Aircraft Design and Research Institute SatA11.63	Lidong Zhao 13:30-15:30
Pengcheng 13:30-15:3 239 Review Complex En	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 rered Consensus Control for Nonlinear	Lidong Zhao 13:30-15:30 231 Dynamic Event-Tric
Pengcheng 13:30-15:3 239 Review Complex Ent Feilong Tag	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 rered Consensus Control for Nonlinear External Disturbances	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems wit
Pengcheng 13:30-15:3 239 Review Complex En Feilong Tad	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 rered Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems wit Fugiang Di
Pengcheng 13:30-15:3 239 Review Complex En Feilong Tao Jiajia Zhao	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 ereed Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology Research Institute	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems with Fuqiang Di
Pengcheng 13:30-15:3 239 Review Complex En Feilong Tac Jiajia Zhao	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 ereed Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems wit Fuqiang Di Junmin Zhao
Pengcheng 13:30-15:3 239 Review Complex En Feilong Tac Jiajia Zhao Bingbing L	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 rered Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems wit Fuqiang Di Junmin Zhao
Pengcheng 13:30-15:30 239 Review Complex Em Feilong Tac Jiajia Zhao Bingbing Ly	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 rered Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems wit Fuqiang Di Junmin Zhao Kang Zhao
Pengcheng 13:30-15:30 239 Review Complex Em Feilong Tac Jiajia Zhao Bingbing Lu 13:30-15:30	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 ered Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems wit Fuqiang Di Junmin Zhao Kang Zhao
Pengcheng 13:30-15:34 239 Review Complex Ent Feilong Tac Jiajia Zhao Bingbing Lu 13:30-15:34 240 固定罩	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 ered Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems with Fuqiang Di Junmin Zhao Kang Zhao Tao Yu
Pengcheng 13:30-15:30 239 Review Complex Em Feilong Tac Jiajia Zhao Bingbing Lu 13:30-15:30 240 固定翼 Xudong Hil	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 ered Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems with Fuqiang Di Junmin Zhao Kang Zhao Tao Yu
Pengcheng 13:30-15:30 239 Review Complex Env Feilong Tac Jiajia Zhao Bingbing Lu 13:30-15:30 240 固定翼 Xudong Hu	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 ereed Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems witt Fuqiang Di Junmin Zhao Kang Zhao Tao Yu Kun Zhang
Pengcheng 13:30-15:30 239 Review Complex Env Feilong Tac Jiajia Zhao Bingbing Lv 13:30-15:30 240 固定翼 Xudong Hu Hao Wang	AVIC Shenyang Aircraft Design and Research Institute SatA11.63 rered Consensus Control for Nonlinear External Disturbances Xi' an Modern Control Technology Research Institute Xi' an Modern Control Technology Research Institute	Lidong Zhao 13:30-15:30 231 Dynamic Event-Trig MultiAgent Systems wit Fuqiang Di Junmin Zhao Kang Zhao Tao Yu Kun Zhang

	Research Institut
	Northwestern Polytechnical Univ
13:30-15:30	SatA11.6
232 An Improved Coarse	Alignment Method with Parameter
Identification and Bias C	ompensation
Xiang Xu	Nanjing Univ. of Science an
	Technolog
Zhenyu Yang	The Univ. of Sheffiel
Junpeng Wang	Nanjing Univ. of Science and
E 147	
Fu wang	East China Institute of Photo
	Electron IC
13:30-15:30	SatA11.6
236 Event-triggered Ada	ptive Consensus for Multiagent System
Under Actuator and Sen	sor Attacks
Bohan Li	Beihang Univ
	Beihang Univ
∠nenqian Wang	Beihang Univ
vvei Wang	Beihang Univ
Jinhu Lyu	Beihang Univ
13:30-15:30	SatA11.6
237 Research on Securi	ty Authentication Methods for Unmanne
Aerial Vehicle Systems I	n Mosaic Warfare Scenarios
Xiaoya Xu	China Aerospace Science and
	Industry Corporation 706 Researc
Weijie Zhu	China Aerospace Science and
	Industry Corporation 706 Researc
	institut
Ran Li	China Aerospace Science and
	Industry Corporation 706 Researc
Xiuteng Fu	China Aerospace Science and
	Industry Corporation 706 Researc
Fan Zhang	China Aerospace Science and
	Industry Corporation 706 Researc
D 1 111	
Pengcheng Wang	Beinang Univ
13:30-15:30	SatA11.6
239 Review of Drone S	Swarm Navigation Control Technology
Complex Environments	
Feilong Tao	Beijing Institute of Mechanical and
·····	Electrical Engineering
Jiajia Zhao	Beijing Institute of Mechanical and
	Electrical Engineering
Bingbing Lv	Beijing Institute of Mechanical and
Bingbing Lv	Beijing Institute of Mechanical and Electrical Engineering
Bingbing Lv 13:30-15:30	Beijing Institute of Mechanical an Electrical Engineerin SatA11.6
Bingbing Lv 13:30-15:30 240 固定翼飞行器编队把	Beijing Institute of Mechanical an Electrical Engineerin SatA11.6 <i>注制律设计与仿真</i>
Bingbing Lv 13:30-15:30 240 固定翼飞行器编队担 Xudong Huang	Beijing Institute of Mechanical an Electrical Engineering SatA11.6 刻律设计与仿真 AVIC Xi'AN Flight Automatic Contro
Bingbing Lv 13:30-15:30 240 固定翼飞行器编队把 Xudong Huang	Beijing Institute of Mechanical an Electrical Engineering SatA11.6 刻律设计与仿真 AVIC Xi'AN Flight Automatic Contro Research Institute
Bingbing Lv 13:30-15:30 240 固定翼飞行器编队括 Xudong Huang Hao Wang	Beijing Institute of Mechanical and Electrical Engineering SatA11.6 它制律设计与仿真 AVIC Xi'AN Flight Automatic Contro Research Institute AVIC Xi'AN Flight Automatic Contro

<u>.</u>	
Guanlin Li	AVIC XI'AN Flight Automatic Contro
	Research Institute
Mingming Tian	AVIC Xi'AN Flight Automatic Contro
	Research Institute
Qiangwei Yang	AVIC Xi'AN Flight Automatic Contro
	Research Institute
13:30-15:30	SatA11.69
241 Distribu ted high-lift sys	stem architecture design for transport
aircraft	
Zhenyun Shi	AVIC First Aircraft Design and
	Research Institute
Feihong Jiang	AVIC First Aircraft Design and
	Research Institute
Junhong Zhang	AVIC First Aircraft Design and
	Research Institute
13:30-15:30	SatA11.70
243 Causal structure lea	arning based on mutual informatio
initialization	
Xinge	Sun Yat-Sen Univ
Huang	
Guanjun	Sun Yat-Sen Univ
Wang	
Qiliang	Sun Yat-Sen Univ
Zhang	
Hongbo	Sun Yat-Sen Univ
Chen	
13:30-15:30	SatA11.71
244 基于模型的电传飞行热	的制系统功能危险性评估
Weiwei Yang	AVIC Xi'AN Flight Automatic Contro
	Research Institute
Zhenxin Yan	AVIC Xi'AN Flight Automatic Contro
	Research Institute
Siyuan Cai	AVIC Xi'AN Flight Automatic Contro
	Research Institute
Dong San	AVIC Xi'AN Flight Automatic Contro
	Research Institute
13:30-15:30	SatA11.72
245 A fault-tolerant multi-se	ensor altitude data fusion scheme
based on chi-square test	
Bingzhi Su	China Helicopter Research and
Bingzhi Su	China Helicopter Research and Development Institute
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Bingzhi Su Lei Li Hongwei Zhang Quanrong He 13:30-15:30	China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute SatA11.73
Bingzhi Su Lei Li Hongwei Zhang Quanrong He <u>13:30-15:30</u> 246 On Safety Design of C	China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute SatA11.73 ivil Aircraft Flight Control System
Bingzhi Su Lei Li Hongwei Zhang Quanrong He <u>13:30-15:30</u> 246 On Safety Design of C Xinhui Zhang	China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute SatA11.73 ivil Aircraft Flight Control System AVIC First Aircraft Design and
Bingzhi Su Lei Li Hongwei Zhang Quanrong He <u>13:30-15:30</u> 246 <i>On Safety Design of C</i> Xinhui Zhang	China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute SatA11.73 ivil Aircraft Flight Control System AVIC First Aircraft Design and Research Institute
Bingzhi Su Lei Li Hongwei Zhang Quanrong He <u>13:30-15:30</u> 246 On Safety Design of C Xinhui Zhang Wenjing Liao	China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute SatA11.73 ivil Aircraft Flight Control System AVIC First Aircraft Design and Research Institute AVIC First Aircraft Design and
Bingzhi Su Lei Li Hongwei Zhang Quanrong He <u>13:30-15:30</u> 246 On Safety Design of C Xinhui Zhang Wenjing Liao	China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute China Helicopter Research and Development Institute SatA11.73 ivil Aircraft Flight Control System AVIC First Aircraft Design and Research Institute AVIC First Aircraft Design and Research Institute

251 ASVF-IPSO based	airport photoelectric camera coverage
enhancement algorithm	1
Hui Sun	Civil Aviation Univ. of China
Shiwei Zhang	Civil Aviation Univ. of China
Rui Wang	Civil Aviation Univ. of China
13:30-15:30	SatA11.75
252 北斗 B1 信号调制	与捕获算法分析
Lijun Xu	Space Engineering Univ
Yanfeng Hu	Space Engineering Univ
Wenkui Li	Naval Engineering Univ
13:30-15:30	SatA11.76
253 综合多约束制导与	机动突防的局捷受控制万法
Sibo Zhao	Xidian Univ
Jianwen Zhu	Xidian Univ
Hao Zhang	
13:30-15:30	SatA11.77
256 Distributed Attitude	Synchronization Control for Multiple
Agents via Event Trigge	Fring Mechanism
Znanjie Znou	Avic Harbin Aircraft Industry Group
Ohum da Mian a	Co., Lta
Chunde wang	Avic Harbin Aircraft Industry Group
40.00.45.00	Co., Ltd
13:30-15:30	SatA11.78
257 Automatic Carrier	Landing Control based on a Finitetim
Convergence Method	
	Beihang Univ
	Beihang Univ
Daochun Li Yunkai Zhou	Beihang Univ
12:20 15:20	Set 11.7
13.30-13.30 260 其王改进府条坤委	了一个小学校的
Rui Wang	
Yiming Zhong	Civil Aviation Univ. of China
Zhikai Wang	Civil Aviation Univ. of China
Hui Sun	Civil Aviation Univ. of China
13:30-15:30	SatA11 80
265 An improved light	veight VOLOVE network for small targets
detection	
Zhihao Cai	Beihang Univ
Xiangije Luo	Beihang Univ
liang Zhao	Beihang Univ
Yingyun Wang	Beihang Univ
13·30-15·30	SatA11 8
266 Intelligent Mission	Commander: A Novel Voice Interaction
Eramework for Air Conf	
Yang lin	
Maolong Ly	Air Force Engineering Univ
Huanvu Li	Air Force Engineering Univ
Yu Zhao	Air Force Engineering Univ
	Air Force Engineering Univ
13:30-15:30	
267 <i>其干改讲人工邮</i> 群	算法的 PID 参数优化方法研究
Guanlin Li	AVIC Xi'AN Flight Automatic

Control Research Institute	J
AVIC Xi'AN Flight Automatic	В
Control Research Institute	Х
AVIC Xi'AN Flight Automatic	1
Control Research Institute	27
AVIC Xi'AN Flight Automatic	wa
Control Research Institute	R
AVIC Xi'AN Flight Automatic	G
Control Research Institute	х
SatA11.83	Z
优化算法	1
Civil Aviation Univ. of China	28
Civil Aviation Univ. of China	Ka
Civil Aviation Univ. of China)
SatA11.84	
分析与同收制导控制方法	v
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Control Research Institute	7
AVIC Xi'AN Flight Automatic	2
Control Research Institute	-
Control Research Institute	28
AVIC XIAN Flight Automatic	\ -
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etry for Motion-constrained	(
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Beihang Univ.	1
Beihang Univ.	29
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Beihang Univ.	Ì
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^r Airborne Photoelectric Turret	ł
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Shaanxi Institute of Technology	ł
Shaanxi Institute of Technology	
SatA11.87	20
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Shaanxi Institute of Technology Shaanxi Institute of Technology SatA11.88 ue For Fixed-Wing UAV Based nization Beijing Automatic and Contro	29 ge F
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Airborne Laser Weapon AntiUAV Shaanxi Institute of Technology Shaanxi Institute of Technology SatA11.88 The For Fixed-Wing UAV Based Inization Beijing Automatic and Contro Institut Beijing Automatic and Contro Institut SatA11.89 200万人目标跟踪算法	29 ge 0 F F 0 0 29 V 22
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	AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute SatA11.83 花化算法 Civil Aviation Univ. of China Civil Aviation Univ. of China Civil Aviation Univ. of China Civil Aviation Univ. of China Civil Aviation Univ. of China SatA11.84 数4与回收制导控制方法 AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute Beihang Univ. Beihang Univ.

Jinlin Zhang	Air Force Engineering Univ
Boyang Ji	Air Force Engineering Univ
Xiangwei Bu	Air Force Engineering Univ
13:30-15:30	SatA11.9
279 Fragility analysis of	prescribed performance control
waverider vehicles	
Ruining Luo	Air Force Engineering Univ
Guangjun He	Air Force Engineering Univ
Xiangwei Bu	Air Force Engineering Univ
Zhao Sun	Air Force Engineering Univ
13:30-15:30	SatA11.9
285 Vision-based UAV prec	sision landing via Invariant Extended
Kalman Filtering	
Yiqi Fu	Northwestern Polytechnical Univ.
Qingqing Dang	Northwestern Polytechnical Univ.
Wen Zhao	Northwestern Polytechnical Univ.
Liqiao Li	Northwestern Polytechnical Univ.
Zhu Zhu	Shanghai Institute of Satellite
	Engineering
13:30-15:30	SatA11.9
287 Trajectory Prediction M	lethod under Low Information Supp
Condition	
Wenjie Yuan	Beihang Univ.
Tonggang Zhao	Chengdu Aircraft Design &
	Research Institute
Qi Yu	Beihang Univ.
Xiaopeng Gong	Beihang Univ.
Wanchun Chen	Beihang Univ.
13:30-15:30	SatA11.9
296 Hypersonic Vehicle	Maneuver Trajectory Multi-Lal
Classification Based on Sec	q2Seq Model
Yulong Lin	Sun Yat-sen Univ
	China Academy of Launch Vehicle
Haipeng Chen	Technolog
Xuebin Zhuang	Sun Yat-sen Univ
Kun Zeng	Sun Yat-sen Univ
13:30-15:30	SatA11.9
297 The ANN for Flow Angle	es Estimation with Input from Physic
geometric Constraints	
Jianhao Cheng	Nanjing Univ. of Aeronaustic and
	Astronaustic
Rongbing Li	Nanjing Univ. of Aeronaustic and
	Astronaustic
Jianye Liu	Nanjing Univ. of Aeronaustic and
	Astronaustic
13:30-15:30	SatA11.9
298 风扰下无人机栖落机动	的强化学习控制设计
Weizhen Zhang	Nanjing Univ. of Aeronaustic and
	Astronaustic
Zhen He	Nanjing Univ. of Aeronaustic and
	Astronaustic
3 (T	Nanjing Univ. of Aeronaustic and
Zhangtan Tang	
Zhangtan Tang	Astronaustic

300 软件可测试性设计	助力装备敏捷研发及质量提升
Li Yang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Xianghu Zhang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Yuliang Gao	AVIC Xi'AN Flight Automatic
	Control Research Institute
Weijian Zhou	AVIC Xi'AN Flight Automatic
	Control Research Institute
Shaolong Song	AVIC Xi'AN Flight Automatic
	Control Research Institute
13:30-15:30	SatA11.9
301 基于改进麻雀搜索	算法的路径规划方法
Hui Sun	Civil Aviation Univ. of China
Yannan Lou	Civil Aviation Univ. of China
Yiqing Shan	Civil Aviation Univ. of China
Rui Wang	Civil Aviation Univ. of China
13:30-15:30	SatA11.9
302 Model Predictive	e Control-based Formation Tracking
Heterogeneous Multi-	unmanned Systems with Communicati
Restriction	· · · · · · · · · · · · · · · · · · ·
Kaili Wu	Naniing Univ. of Aeronautics and
	Astronautics
Yuanging Fang	Naniing Univ of Aeronautics and
i danqing i ang	Astronautics
Qiang Qu	Naniing Univ of Aeronautics and
dung du	Astronautics
Min Zhang	Naniing Univ of Aeropautics and
	Astronautics
Mingyang Xie	Naniing Univ of Aeronautics and
	Astronautics
13:30-15:30	SatA11.9
303 基于白话应遗传粒	了子群混合算注的光纤陀螺温度建模方注
Xiaorui Zheng	Beijing Aerospace Times Ontical-
Aldorul Zheng	electronic Co. Ltd
	Boiiing Acrospace Times Optical
	oloctronic Co. Ltd
Shuangza Vang	Boiiing Acrospace Times Optical
Shuangze rang	electronic Co. Ltd
Chan Mana	Peiiing Assesses Times Onticel
Shan wang	Beijing Aerospace Times Optical-
40.00 45.00	
13:30-15:30	Salati.it
304 A multi-field coupli	ng model for rotary lip seal with textured
shaft	
Enrui Wang	Guangzhou Mechanical
	Engineering Research Institute
	Co.Ltd
Shaoping Wang	Beihang Univ.
Di Liu	Guangzhou Mechanical
	Engineering Research Institute
	Co.Ltd
Xiaochuan Duan	Beihang Univ.
Yaoxing Shang	Beihang Univ.
Yunlong Guo	Guangzhou Mechanical

	Engineering Research Institute
	Co.Ltd
Bo Zhang	Guangzhou Mechanical
	Engineering Research Institute
	Co.Ltd
13:30-15:30	SatA11.101
305 A degradation mo	deling method based on Gamma process
with artificial neural ne	twork utilizing two types of testing data
Xiaochuan Duan	Tianmushan Laboratory
Shaoping Wang	Tianmushan Laboratory
Di Liu	Tianmushan Laboratory
Enrui Wang	Tianmushan Laboratory
Yaoxing Shang	Tianmushan Laboratory
13:30-15:30	SatA11.102
308 Research on Red	undancy Restart Condition of Flight Contro
Computer	
Xin Zhang	AVIC First Aircraft Design and
	Research Institute
Xin Liu	AVIC First Aircraft Design and
	Research Institute
Delong Cui	AVIC First Aircraft Design and
	Research Institute
13:30-15:30	SatA11.103
314 基于ARCADIA 的	如MBSE 方法在民机飞控系统中的应用研究
Zilin Huang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Hang Zhang	AVIC Aerospace System Co., Ltd
Li Li	AVIC Xi'AN Flight Automatic
	Control Research Institute
Zhuang Xie	AVIC Xi'AN Flight Automatic
	Control Research Institute
Fan Yang	AVIC Xi'AN Flight Automatic
	Control Research Institute
13:30-15:30	SatA11.104
315 An algorithm for	estimating the number of targets within a
dense group based or	a cardinality probability hypothesis densit

Nanjing Univ. of Science and
Technology
Nanjing Univ. of Science and
Technology
Nanjing Univ. of Science and
Technology
Nanjing Univ. of Science and
Technology
SatA11.105

320 基于增量式反步的低点	或本小型无人机应急控制律设计
Wu Liu	AVIC Xi'AN Flight Automatic
	Control Research Institute
Yueping Wang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Yunyan Wu	AVIC Xi'AN Flight Automatic
	Control Research Institute
Mingming Tian	AVIC Xi'AN Flight Automatic

	Control Research Institute
Tianpeng Huang	AVIC Xi'AN Flight Automation
	Control Research Institute
13:30-15:30	SatA11.1
321 Modeling and Analys	sis of Deployment Quantity for Mul
Drones Encircling Drone S	Swarm
Peiyu Li	Nanjing Univ. of Science and
	Technolog
Guoqing Qi	Nanjing Univ. of Science and
	Technolog
Yinya Li	Nanjing Univ. of Science and
	Technolog
Andong Sheng	Nanjing Univ. of Science and
	Technolog
13:30-15:30	SatA11.1
324 Flight Control Desig	n for eVTOL Aircraft Using Nonli
Dynamic Inversion and H	∞ Control
Wenxuan Gao	Shanghai Jiao Tong Univ
Wenhong Jiang	Shanghai Jiao Tong Univ
Bei Lu	Shanghai Jiao Tong Univ
Qifu Li	Shanghai Jiao Tong Univ
13:30-15:30	SatA11.1
326 Trajectory Prediction	Based on Damped Oscillation Mode
Xinpeng Xu	Northwestern Polytechnical Univ
Jianguo Guo	Northwestern Polytechnical Univ
Mengxuan Li	Xi'AN ASN UAV Technology Co
	Lt
13:30-15:30	SatA11.1
327 一种改进的主从式无	人机协同导航算法
Yang Shang	AVIC Xi'AN Flight Automati
	Control Research Institut
JingTing Su	AVIC Xi'AN Flight Automati
	Control Research Institut
Shuai Wei	AVIC Xi'AN Flight Automati
	Control Research Institut
Jiang Jing	AVIC Xi'AN Flight Automati
Jiang Jing	AVIC Xi'AN Flight Automati Control Research Institut
Jiang Jing 13:30-15:30	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波(AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波 Shuai Wei	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati
Jiang Jing 13:30-15:30 <u>328 基于变分贝叶斯滤波</u> Shuai Wei	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波(Shuai Wei Yang Shang	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波/ Shuai Wei Yang Shang	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut Control Research Institut
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波 Shuai Wei Yang Shang Jingting Su	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波 Shuai Wei Yang Shang Jingting Su	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波 Shuai Wei Yang Shang Jingting Su 13:30-15:30	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut SatA11.1
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波 Shuai Wei Yang Shang Jingting Su 13:30-15:30 329 Game Maneuver Dec	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 ision-Making for Multi-UAV via PPO
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波 Shuai Wei Yang Shang Jingting Su 13:30-15:30 329 Game Maneuver Dec A3C-PER Learning Metho	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institute AVIC Xi'AN Flight Automati Control Research Institute AVIC Xi'AN Flight Automati Control Research Institute AVIC Xi'AN Flight Automati Control Research Institute SatA11.1
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波, Shuai Wei Yang Shang Jingting Su 13:30-15:30 329 Game Maneuver Dec A3C-PER Learning Metho Beibei Qiao	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 ision-Making for Multi-UAV via PPO od
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波, Shuai Wei Yang Shang Jingting Su 13:30-15:30 329 Game Maneuver Decc A3C-PER Learning Metho Beibei Qiao Zhenshuai Jia	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 ision-Making for Multi-UAV via PPO nd Northwestern Polytechnical Univ
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波, Shuai Wei Yang Shang Jingting Su 13:30-15:30 329 Game Maneuver Dec A3C-PER Learning Methor Beibei Qiao Zhenshuai Jia Bing Xiao	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 ision-Making for Multi-UAV via PPO od Northwestern Polytechnical Univ Northwestern Polytechnical Univ
Jiang Jing 13:30-15:30 328 基于变分贝叶斯滤波, Shuai Wei Yang Shang Jingting Su 13:30-15:30 329 Game Maneuver Dec A3C-PER Learning Methor Beibei Qiao Zhenshuai Jia Bing Xiao Hanyu Qian	AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 的惯性/地形匹配组合导航算法 AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut AVIC Xi'AN Flight Automati Control Research Institut SatA11.1 ision-Making for Multi-UAV via PPO od Northwestern Polytechnical Univ Northwestern Polytechnical Univ Northwestern Polytechnical Univ

Unmanned Air-Ground Ve	ehicle Group Under Switching
Topologies	
Hao Liu	Beihang Univ.
Ming Cheng	Beihang Univ.
Qing Gao	Beihang Univ.
Haibin Duan	Beihang Univ.
13:30-15:30	SatA11.113
334 Adaptive Control via	Variable Strategies for High-Dynamic
Flight Vehicles	
Ding Zhong	Beijing Institute of Technology
Haocheng Peng	Beijing Institute of Technology
Kai Shen	Beijing Institute of Technology
Wenjun Guo	Beijing Institute of Technology
Pengxiang Yang	XI'AN Modern Control Technology
40.00.45.00	Research Institute
13:30-15:30	SatA11.114
335 Attitude Control Sche	mes of Yaw Steering with Front and Bac
Pointing to the Sun Altern	ately
Xi Wang	Beijing Institute of Spacecraft
Ohan anin a Ohan	Engineering
Changqing Chen	Beijing Institute of Control
Vicoping Yu	Engineering Roiiing Institute of Spacecraft
	Engineering
Zhen Huang	Beijing Institute of Spacecraft
Zhen Huang	Engineering
13:30-15:30	SatA11 115
	话应滑模控制算法
Chao Dong	Naval Aviation Univ
Junwei Lei	Naval Aviation Univ.
Qiang Wang	Naval Aviation Univ.
Lei Meng	Naval Aviation Univ.
13:30-15:30	SatA11.116
339 基于轻量化 YOLOv7	-tiny 的滑坡检测算法研究
Hui Sun	Civil Aviation Univ. of China
Shuguang Yang	Civil Aviation Univ. of China
Rui Wang	Civil Aviation Univ. of China
13:30-15:30	SatA11.117
340 Deep Reinforcem	ent Learning-Based Multi-Constrain
340 Deep Reinforcem Guidance with Field-of-Vi	nent Learning-Based Multi-Constrair. ew Limitation
340 Deep Reinforcem Guidance with Field-of-Vi Yuhui Pu	ent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology
340 Deep Reinforcerr Guidance with Field-of-Vi Yuhui Pu Yuru Bin	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology
340 Deep Reinforcerr Guidance with Field-of-Vi Yuhui Pu Yuru Bin Hui Wang	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology
 340 Deep Reinforcerr Guidance with Field-of-Vi Yuhui Pu Yuru Bin Hui Wang Haorui Yang 	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology
 340 Deep Reinforcerr Guidance with Field-of-Vi Yuhui Pu Yuru Bin Hui Wang Haorui Yang 13:30-15:30 	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology SatA11.118
 340 Deep Reinforcerr Guidance with Field-of-Vi Yuhui Pu Yuru Bin Hui Wang Haorui Yang 13:30-15:30 341 Temperature Control 	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology SatA11.118 I of Cryogenic Wind Tunnel Based of
 340 Deep Reinforcerr Guidance with Field-of-Vi Yuhui Pu Yuru Bin Hui Wang Haorui Yang 13:30-15:30 341 Temperature Control Adaptive Robust Sliding I 	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology SatA11.118 I of Cryogenic Wind Tunnel Based of Mode Control
 340 Deep Reinforcerr Guidance with Field-of-Vi Yuhui Pu Yuru Bin Hui Wang Haorui Yang 13:30-15:30 341 Temperature Contro Adaptive Robust Sliding I Bo Sang 	nent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology SatA11.118 I of Cryogenic Wind Tunnel Based of Mode Control China Aerodynamics Research and
 340 Deep Reinforcerr Guidance with Field-of-Vir Yuhui Pu Yuru Bin Hui Wang Haorui Yang 13:30-15:30 341 Temperature Control Adaptive Robust Sliding In Bo Sang 	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology SatA11.118 I of Cryogenic Wind Tunnel Based of Mode Control China Aerodynamics Research and Development Center
 340 Deep Reinforcerr Guidance with Field-of-Vir Yuhui Pu Yuru Bin Hui Wang Haorui Yang 13:30-15:30 341 Temperature Contro Adaptive Robust Sliding I Bo Sang Houyuan Xiao 	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology SatA11.118 of Cryogenic Wind Tunnel Based of Mode Control China Aerodynamics Research and Development Center China Aerodynamics Research and
 340 Deep Reinforcerr Guidance with Field-of-Vir Yuhui Pu Yuru Bin Hui Wang Haorui Yang 13:30-15:30 341 Temperature Contro Adaptive Robust Sliding I Bo Sang Houyuan Xiao 	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology SatA11.118 If of Cryogenic Wind Tunnel Based of Mode Control China Aerodynamics Research and Development Center China Aerodynamics Research and Development Center
 340 Deep Reinforcerr Guidance with Field-of-Vi Yuhui Pu Yuru Bin Hui Wang Haorui Yang 13:30-15:30 341 Temperature Contro Adaptive Robust Sliding I Bo Sang Houyuan Xiao Fujing Tian 	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology SatA11.118 I of Cryogenic Wind Tunnel Based of Mode Control China Aerodynamics Research and Development Center China Aerodynamics Research and Development Center China Aerodynamics Research and
 340 Deep Reinforcerr Guidance with Field-of-Vi Yuhui Pu Yuru Bin Hui Wang Haorui Yang 13:30-15:30 341 Temperature Contro Adaptive Robust Sliding I Bo Sang Houyuan Xiao Fujing Tian 	eent Learning-Based Multi-Constrain ew Limitation Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology SatA11.118 I of Cryogenic Wind Tunnel Based of Mode Control China Aerodynamics Research and Development Center China Aerodynamics Research and Development Center China Aerodynamics Research and Development Center

	Development Center	Chi Ga
Bowen Wang	Huazhong Univ. of Science and	
	Technology	Rui Ho
13:30-15:30	SatA11.119	
342 Aircraft Braking Co	ntrol Using an LMI-based Linear Paramete	Hui Liu
Varying PID Method		
Wenhong Jiang	Shanghai Jiao Tong Univ.	Yuyao
Wenxuan Gao	Shanghai Jiao Tong Univ.	
Bei Lu	Shanghai Jiao Tong Univ.	13:30-1
Qifu Li	Shanghai Jiao Tong Univ.	359 基于
13:30-15:30	SatA11.120	Wenha
343 飞翼无人机着陆抗	地效控制方法	
Mingming Tian	AVIC Xi'AN Flight Automatic	Yong V
	Control Research Institute	
Wei Liu	AVIC Xi'AN Flight Automatic	Zhangj
	Control Research Institute	
Yueping Wang	AVIC Xi'AN Flight Automatic	Dantao
	Control Research Institute	
Wu Liu	AVIC Xi'AN Flight Automatic	Fangfa
	Control Research Institute	
Ranran Wang	AVIC Xi'AN Flight Automatic	Zelin Li
	Control Research Institute	
Xudong Hang	AVIC Xi'AN Flight Automatic	Xiangq
	Control Research Institute	
13:30-15:30	SatA11.121	Shuyar
349 Aircraft Control S	Surface Fault Stepwise Diagnosis Method	
Based on Deep Learni	ng	13:30-1
Jin Wang	Beihang Univ.	360 Inte
Shang Tai	Beihang Univ.	Commun
Lixin Wang	Beihang Univ.	Hao Li
Ting Yue	Beihang Univ.	
Hailiang Liu	Beihang Univ.	Donglia
Jinhua Zhang	China Special Vehicle Research	
	Institute	Yang Y
13:30-15:30	SatA11.122	
350 基于 AADL 模型	的系统安全性分析方法研究与实践	Ling Zu
Yan Ge	Innovation Center of Xi an	
	Automatic Flight Control Institute of	Zhiyu L
	Aviation Industry	
Dantao Zhang	Innovation Center of Xi an	Shicha
	Automatic Flight Control Institute of	
	Aviation Industry	Jiayun
Yong Wang	Innovation Center of Xi an	
	Automatic Flight Control Institute of	Lin Hou
	Aviation Industry	
Fangfang Wu	Xi'an Automatic Flight Control	Qiang ⁻
	Institute of Aviation Industry	
13:30-15:30	SatA11.123	13:30-1
358 On Pose Estimat	tion Algorithm of Cone Sleeve Based or	361 Sat
Monocular Vision		Based or
Xiaoping Chen	Univ. of Electronic Science and	Shaohu
	Technology of China	Xiaodo
Zhenyu Zhou	Univ. of Electronic Science and	
	Technology of China	Qixuan

Chi Gao	Avic Chengdu Aircraft Design and
	Research Institute
Rui Hong	Univ. of Electronic Science and
	Technology of China
Hui Liu	Univ. of Electronic Science and
	Technology of China
Yuyao Xie	Chengdu Plane Technology Co.,
	Ltd
13:30-15:30	SatA11.124
359 基于 SysML 和 SYSMC	DD 的系统建模方法
Wenhao Wang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Yong Wang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Zhangjun Sun	AVIC Xi'AN Flight Automatic
	Control Research Institute
Dantao Zhang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Fangfang Wu	AVIC Xi'AN Flight Automatic
·	Control Research Institute
Zelin Li	AVIC Xi'AN Flight Automatic
	Control Research Institute
Xianggiao Li	AVIC Xi'AN Flight Automatic
Mangqiao Ei	Control Research Institute
Shuvang Wang	
Shuyang wang	Control Research Institute
12:20 15:20	Control Research Institute
260 Inter UAV State Es	timation of Swarmed LIAVs with
360 Inter-UAV State Es	timation of Swarmed UAVs with
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360 Inter-UAV State Es Communication Constraints Hao Li Dongliang Song Yang Yukun Ling Zuo Zhiyu Li Shichao Ma Jiayun Wen Lin Hou Qiang Tang 13:30-15:30 361 Satellite Selection Au Based on Dual-constellatior	AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute
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	Control Research Institute
Zhiyu Yin	AVIC Xi'AN Flight Automatic
	Control Research Institute
Haoming Wang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Bin Xu	Northwestern Polytechnical Univ.
13:30-15:30	SatA11.127
365 确定式和灵活式结	告合的 MIL-STD-1553B 数据总线控制策略
Tianlun Huan	AVIC Xi'AN Flight Automatic
	Control Research Institute
ZhenXin Yan	AVIC Xi'AN Flight Automatic
	Control Research Institute
Zhi Li	AVIC Xi'AN Flight Automatic
	Control Research Institute
Ranran Wang	AVIC Xi'AN Flight Automatic
	Control Research Institute
13:30-15:30	SatA11.128
366 The Application o	f GNSS/IMU Integrated Navigation syste
in Automobile	
Lei Shi	Guangzhou ASENSING technology
	CO.,Ltd
Yingcai Wu	Guangzhou ASENSING technology
C C	CO.,Ltd
Liangen Yuan	Guangzhou ASENSING technology
0	CO.,Ltd
13:30-15:30	SatA11.129
368 基于 UP 范式的自	自动飞行控制系统模式转换需求验证
Hongzhu Chen	AVIC Xi'AN Flight Automatic
	Control Research Institute
Pei Yang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Dantao Zhang	AVIC Xi'AN Flight Automatic
Dantao Enang	
Daniao Zhang	Control Research Institute
13:30-15:30	Control Research Institute SatA11.130
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Yazhou Yue	AVIC Xi'AN Flight Automatic
	Control Research Institute
Zhangjun Sun	Xi'AN JIAOTONG Univ.
Yong Wang	AVIC Xi'AN Flight Automatic
0 0	Control Research Institute
Fangfang Wu	AVIC Xi'AN Flight Automatic
	Control Research Institute
Dantao Zhang	
Daniao Zhang	
Dei Vona	
Fei fally	
X O	
Yan Ge	AVIC XI'AN Flight Automatic
	Control Research Institute
Wenhao Wang	AVIC Xi'AN Flight Automatic
	Control Research Institute
13:30-15:30	SAT A11.133
377 A Finite-Time Conv	ergence Guidance Law for Axial Force -
Controlled Missile	
Bowei Zhou	Beijing Institute of Electronic
	System Engineering
Junvan Xu	Beijing Institute of Electronic
	System Engineering
13.30 15.30	SAT A11 134
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Zinan Nan	Beijing Aerospace Control
Dayu Liu	Beijing Institute of Electronic
	System Engineering
Ming Dong	Beijing Institute of Tracking and
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	relecommunication rechnology
Wenning Liang	China Aerospace Science and
Wenning Liang	China Aerospace Science and Technology Corporation
Wenning Liang Xuewei Zhao	China Aerospace Science and Technology Corporation Beijing Aerospace Control
Wenning Liang Xuewei Zhao	China Aerospace Science and Technology Corporation Beijing Aerospace Control Technology Institute
Wenning Liang Xuewei Zhao Yilin Ma	China Aerospace Science and Technology Corporation Beijing Aerospace Control Technology Institute Beijing Aerospace Control
Wenning Liang Xuewei Zhao Yilin Ma	China Aerospace Science and Technology Corporation Beijing Aerospace Control Technology Institute Beijing Aerospace Control Technology Institute
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Wenning Liang Xuewei Zhao Yilin Ma <u>13:30-15:30</u> 387 Research on Analy Protocol Based on OSI Yan Liu YongGuan Guo Fan Yang KeYi Zhu Jun Zhang <u>13:30-15:30</u> 388 Bezier Curve Based	China Aerospace Science and Technology Corporation Beijing Aerospace Control Technology Institute Beijing Aerospace Control Technology Institute SAT A11.135 sis and Application of AFDX Model AVIC Xi'an Flight Automatic Control Research Institute China Flight Test Establishment AVIC Xi'an Flight Automatic Control Research Institute AVIC Xi'an Flight Automatic Control Research Institute SAT A11.136
Wenning Liang Xuewei Zhao Yilin Ma <u>13:30-15:30</u> 387 Research on Analy Protocol Based on OSI Yan Liu YongGuan Guo Fan Yang KeYi Zhu Jun Zhang <u>13:30-15:30</u> 388 Bezier Curve Based	China Aerospace Science and Technology Corporation Beijing Aerospace Control Technology Institute Beijing Aerospace Control Technology Institute SAT A11.135 sis and Application of AFDX Model AVIC Xi'an Flight Automatic Control Research Institute China Flight Test Establishment AVIC Xi'an Flight Automatic Control Research Institute AVIC Xi'an Flight Automatic Control Research Institute SAT A11.136
Wenning Liang Xuewei Zhao Yilin Ma <u>13:30-15:30</u> 387 Research on Analy Protocol Based on OSI Yan Liu YongGuan Guo Fan Yang KeYi Zhu Jun Zhang <u>13:30-15:30</u> 388 Bezier Curve Based Jiulong Wang	China Aerospace Science and Technology Corporation Beijing Aerospace Control Technology Institute Beijing Aerospace Control Technology Institute SAT A11.135 Sis and Application of AFDX Model AVIC Xi'an Flight Automatic Control Research Institute China Flight Test Establishment AVIC Xi'an Flight Automatic Control Research Institute AVIC Xi'an Flight Automatic Control Research Institute SAT A11.136 d Path Planning for UAV Rendezvous Univ. of Science and Technology of
Wenning Liang Xuewei Zhao Yilin Ma <u>13:30-15:30</u> 387 Research on Analy Protocol Based on OSI Yan Liu YongGuan Guo Fan Yang KeYi Zhu Jun Zhang <u>13:30-15:30</u> 388 Bezier Curve Based Jiulong Wang	China Aerospace Science and Technology Corporation Beijing Aerospace Control Technology Institute Beijing Aerospace Control Technology Institute SAT A11.135 sis and Application of AFDX Model AVIC Xi'an Flight Automatic Control Research Institute China Flight Test Establishment AVIC Xi'an Flight Automatic Control Research Institute AVIC Xi'an Flight Automatic Control Research Institute SAT A11.136

	China
Haibo Ji	Univ. of Science and Technology of
	China
13:30-15:30	SAT A11.13
391 Multi-UAV Rendez	vous Trajectory Planning Based on
PPO Algorithm	
Ye Wang	Zhejiang Univ.
Shangjun Ye	Zhejiang Univ.
Bo Han	Zhejiang Univ.
Yuling Dong	Zhejiang Univ.
13:30-15:30	SAT A11.13
392 具有输出边界保护	的飞行器姿态控制律设计
Shu Yang	Northwestern Polytechnical
	Univ.
Ting Yang	Beijing Aerospace Technology
	Institute
Xinran Wang	Tsinghua Univ.
13:30-15:30	SAT A11.13
394 Research on Runn	ing-in Test Technology of Hydraulic Mot
Based on Distributed Ir	ndependent Control
Kun Li	AVIC Qing'an Group Co.
Yongtao Luo	AVIC Qing'an Group Co.
Yongpeng Wang	AVIC Qing'an Group Co.
Yunlong Gao	AVIC Qing'an Group Co.
Wei Xu	AVIC Qing'an Group Co.
Tao Zhang	AVIC Qing'an Group Co.
13:30-15:00	SAT A11.14
396 Effect of Infrared In	mage Point Centroiding Accuracy on
Spatial Positioning in H	lelmet-mounted Sight System
Xiang Liu	Aerospace Life-Support Industries
Rubing Wang	Aerospace Life-Support Industries
Yajie Qiao	Aerospace Life-Support Industries
13:30-15:30	SAT A11.14
398 An Improved Ship	Target Detection Algorithm Under
Complex Port Based of	n YOLOv5
Yao Sun	Chinese Flight Test Establishment
13:30-15:30	SAT A11.14
400 Evaluation of the F	Reachable Domain of Launch
Vehicles Under Thrust	Fault
Keshu Li	Beijing Institute of Astronautica
	Systems Engineering
Wanqing Zhang	Beijing Institute of Astronautica
	Systems Engineering
Xinyuan Miao	Beijing Institute of Astronautica
	Systems Engineering
Ying Ma	Beijing Institute of Astronautica
	Systems Engineering
13:30-15:30	SAT A11.14
403 Adaptable Deep Le	earning Based Depth Refinement
for Infrared Stereo Can	nera
Bowen Liu	Beihang Univ
Le An	Beihang Univ
Pei Chi	Beihang Univ.

Cancan Tao	Beihang Univ.	
Yingxun Wang	Beihang Univ.	
13:30-15:30	SAT A11.144	
404 Oscillatory Failure and	Monitor Strategy in Civil	
Aircraft Electrical Flight Cor	ntrol System	
Jun Sima	Shanghai Aircraft Design and	
	Research Institute	
Qingwei Shen	Shanghai Aircraft Design and	
	Research Institute	
Xinyu Jiang	Shanghai Aircraft Design and	
	Research Institute	
13:30-15:30	SAT A11.145	
405 Research on Autonomo	ous Landing of Drones Based	
on Experimental Systems		
Lingling Wang	Naval Aviation Univ.	
Chen Yang	Naval Aviation Univ.	
Jin Yu	Naval Aviation Univ.	
13:30-15:30	SAT A11.146	
406 Model-Free Control of	Triple Pendulum Crane Systems With	
Distributed Mass Payloads		
Qingxiang Wu	Nankai Univ.	
Ning Sun	Nankai Univ.	
Tong Yang	Nankai Univ.	
13:30-15:30	SAT A11.147	
408 Multi-USV area covera	ge path planning based on electronic	
charts		
Shixiong Wang	Harbin Engineering Univ.	
Enjiao Zhao	Harbin Engineering Univ.	
Kefei Yuan	Wuhan Second Ship Design and	
	Research Institute	
13:30-15:30	SAT A11.148	
410Study on Dual-Spin Bal	listic Modeling for	
Spin-Stabilized Projectile w	ith an Aft Control Kit	
Hao Yu	Beijing Institute of Technology	
Ding Zhong	Beijing Institute of Technology	
Zhihong Deng	Beijing Institute of Technology	
Kai Shen	Beijing Institute of Technology	
Pengxiang	Xi'an Modern Control Technology	
Yang	Research Institute	
13:30-15:30	SAT A11.149	
415 Event-Triggered Conse	nsus of Matrix-Weighted	
Multiple Euler-Lagrange Sy	stems	
Liang Xiao	Huazhong Univ. of Science and	
0 · N/	I echnology	
Suoxia Miao	Nanchang Institute of Technology	
ran Meng		
rong wang	Army Academy of Artillery and Air	
Heusher - Ou	Detense	
Housneng Su	Huaznong Univ. of Science and	
40-00 45-00		
13:30-15:30	SAT A11.150	
419 An azimuthal oscillation	Improvement method based on	
grating error identification fo	or quai-axis HINS	
Xiaoxi Zhao	Beihang Univ.	

Hao Zhang	Beijing Institute of Computer
Kuiti	Reihand Univ
Fei Qi	Beihang Univ.
13:30-15:30	SAT A11 151
429 A Multi-source Fu	usion Navigation Method for USUV
Duanyang Gao	Dalian Naval Academy
Hong Cheng	Dalian Naval Academy
lingwei Du	Dalian Naval Academy
Yunhai Zhong	Dalian Naval Academy
Ribong Pan	92987 Troops
13:30-15:30	92307 1100p3 SAT A11 152
13.50-13.50	Navigation Trajectory Congrator Pased of
Six Degree of Freedo	n Navigation Trajectory Generator Based C m Elight Model
Zhiheng Bai	Naniing Univ. of Science and
Zinneny Dai	Technology
Chao Ming	Naniing Univ. of Science and
Chao wing	Tochoology
Zibo Xu	Naniing Univ. of Science and
Zine Xu	Nanjing Univ. of Science and
Tong Forg	
iong reng	
40.00 45.00	I echnology
13:30-15:30	SALA11.153
431 A Real-time Dete	ction Methoa for SMT Chip Component
Defects based on Ada	aptive Collaborative Feature
Yunbo Zhao	Univ. of Science and Technology of
wangyou Gui	Univ. of Science and Technology of
	China Van stee Diven Delte Hest schet
Lijun Zhao	rangtze River Delta Hart robot
	Industry Lechnology Research
Vu Kor -	
r u Kang	Univ. or Science and Technology of
Kabaa Ol	China
kehao Shi	Univ. of Science and Technology of
	China
∠henyi Xu	Hetei Comprehensive National
	Science Center
13:30-15:30	SAT A11.154
432 Control Design fo	r UAV Perching Maneuvers Based on
Iterative Learning MP	С
Zijun Zhou	Nanjing Univ. of Aeronautics and
	Astronautics
Zhen He	Nanjing Univ. of Aeronautics and
	Astronautics
Yu Feng	Nanjing Univ. of Aeronautics and
	Astronautics
Siying Lin	Nanjing Univ. of Aeronautics and
	Astronautics
13:30-15:30	SAT A11.155
433 Modeling and Equ	uilibrium Analysis of Civil Aircraft Crosswin
Landing under Gradie	nt Wind Field Conditions
Pengcheng Ren	Beihang Univ.
Youhua Pu	AVIC Xi'an Flight Automatic Control

	Research Institute
Jing Zhang	Beihang Univ.
Lingyu Yang	Beihang Univ.
13:30-15:30	SAI A11.156
438 Prediction-base	ed Cooperative Tracking Strategy of
Fixed-wing UAV Sw	varm for Dynamic Targets with Maneuvers
Song Jiang	Beihang Univ.
Pei Chi	Beihang Univ.
Jiang Zhao	Beihang Univ.
Guangyi Wang	Northwestern Polytechnical Univ.
Kelin Lu	Southeast Univ.
Yingxun Wang	Beihang Univ.
13:30-15:30	SAT A11.157
439 Design and Ana	alysis of an Underactuated Lateral Coupling
Control System for	High-Performance Re-entry Vehicles
Jiahui Zhang	Beijing Institute of Technology
Qiuqiu Wen	Beijing Institute of Technology
∠hen Chen	Beijing Institute of Technology
Fei Peng	Science and Technology on Near-
	Surface Detection Laboratory
13:30-15:30	SAT A11.158
440Game learning-	based target allocation of the
UAV confrontation s	system
Yaxu Hu	Univ. of Science and Technology Beijing
Yanling Zhang	Univ. of Science and Technology Beijing
Feng Xiao	North China Electric Power Univ.
13:30-15:30	SAT A11.159
441 A Q-Learning E	Based Path Planning Method with
Adaptive Steering C	Constraints for USV
Shirui Song	Harbin Engineering Univ.
Enjiao Zhao	Harbin Engineering Univ.
13:30-15:30	SAT A11.160
447 Motion planning	g for fixed-wing UAV using modified Dubins-
RRT* algorithm	
Changyu Bi	Beijing Institute of Technology
Junhui Liu	Beijing Institute of Technology
Jianan Wang	Beijing Institute of Technology
Jiayuan Shan	Beijing Institute of Technology
13:30-15:30	SAT A11.161
448 国外制导炮弹组	但合导航系统发展现状
Kai Chen	Northwestern Polytechnical Univ.
Zhenhao Li	Northwestern Polytechnical Univ.
Chengzhi Zeng	Northwestern Polytechnical Univ.
Tao Yang	Northwestern Polytechnical Univ.
Shuangjie Li	Northwestern Polytechnical Univ.
13:30-15:30	SAT A11.162
450 Control Strateg	y of Guiding system in High-speed
Flight Maglev Vehic	le
Chuanshu Meng	National Univ. of Defense
	Technology
Jianbin Chen	National Univ. of Defense
	Technology
Mingda Zhai	National Univ. of Defense
	Technology

13:30-15:30	SAT A11.163
884 LOS Guidance L	aw Based on Adaptive Iterative Learnin
Control Method for Pat	h Following of Underactuated USVs
Qi Zheng	Harbin Institute of Technology
Qinghua Luo	Harbin Institute of Technology
Ke Xu	Harbin Institute of Technology
13:30-15:30	SAT A11.164
455 Adaptive Active L	Defense Guidance for Hypersonic Vehic
with Incomplete Inform	ation Based on Reinforcement Learning
Weilin Ni	Sun Yat-sen Univ.
Peihuan Qiu	Sun Yat-sen Univ.
Haizhao Liang	Sun Yat-sen Univ.
13:30-15:30	SAT A11.165
456 GNSS/INS Tightly	^r Integrated Navigation and Performance
Testing Aided by Augm	nented Zero-velocity Constraint
Jingru Guo	Nanjing Univ. of Aeronautics and
	Astronautics
Qieqie Zhang	Nanjing Univ. of Aeronautics and
	Astronautics
Jingyun Duo	Beijing Wuzi Univ.
13:30-15:30	SAT A11.166
457 Two Fast Satellite	Selection Methods Based on Minimum
GDOP	
Le Fang	Nanjing Univ. of Aeronautics and
	Astronautics
Qieqie Zhang	Nanjing Univ. of Aeronautics and
	Astronautics
Jizhou Lai	Nanjing Univ. of Aeronautics and
	Astronautics
13:30-15:30	SAT A11.167
459 民用飞机面向适航	就性的 IPD 流程在电传飞控系统开发中的
用	
Pengdong Sun	AVIC Xi'an Flight Automatic Control
	- Research Institute
Hang Zhang	AVIC Aerospace System Co.
Zhiyong Tan	AVIC Xi'an Flight Automatic Control
	Research Institute
Yuechao Dina	AVIC Xi'an Flight Automatic Control
3	Research Institute
Ruiting Cao	AVIC Xi'an Flight Automatic Control
	Research Institute
Zilong Jing	AVIC Xi'an Flight Automatic Control
	Research Institute
13:30-15:30	SAT A11 169
15.50-15.50	ributed Eermetics Central of Multiple
404 Fuzzy-based Distr	
QUAVS with Time-vary	Ang State Constraints
JIA FU	ivarijing Univ. of Science and
Oion M-	
Qian Ma	Nanjing Univ. of Science and
D	Technology
Peng Jin	Nanjing Univ. of Science and
o —	Technology
Guopeng Zhou	Wuhan Textile Univ.
13:30-15:30	SAT A11.169

Ontimized Model Pre	ediction Controller
Ning Sup	Boibang L
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12:20 15:20	Gloup Colpora
13.30-13.30	SALATI
Arz Characteristic r	Rodeling a Class of Normear System.
Vivong Zong	Estimation Methods
	Beijing Institute of Technol
	Beijing Institute of Technol
Zhoogi Dong	Beijing Institute of Technol
2naoqi Dong	Beijing institute of Technol
13:30-15:30	SALATI
482 Deep Learning-I	Based IMU Errors Compensation with
Dynamic Receptive I	Field Mechanism
	Harbin Engineering U
Wei Wang	Harbin Engineering U
Zhongchen Shi	Academy of Military Scien
Liang Xie	Academy of Military Scien
Wei Chen	Academy of Military Scien
Ye Yan	Academy of Military Scien
Erwei Yin	Academy of Military Scien
13:30-15:30	SAT A11
483 基于多传感器融	合的城市轨道交通列车定位方法研究
Jin Ye	Leador Spatial Informa
	Technology Corpora
Huichao Shao	Leador Spatial Informa
	Technology Corpora
Xiangxin Guo	Leador Spatial Informa
	Technology Corpora
Jian Liu	Leador Spatial Informa
	Technology Corpora
Yan Zhang	Leador Spatial Informa
	Technology Corpora
13:30-15:30	SAT A11
487 Verification Meth	nod of Oscillation Monitors for Flight
Parameters in Civil A	Nircraft FBW System
Jun Sima	Shanghai Aircraft Design
	Research Instit
Fan Yue	Shanghai Aircraft Design
	Research Instit
Zhen Zhao	Shanghai Aircraft Design
	Research Instit
13:30-15:30	SAT A11
491 基于混合算法的	多无人机任务分配研究
	Research & Development Institute
Guanfeng Ji	Northwestern Polvtechnical Univ
	Shenz
	Research & Development Institute
Zhuo Zhang	Northwestern Polytechnical Univ
	Shenzi
Guan Huang	Research & Development Institut
Suan Ruang	Research & Development institute

Shenzhen AT A11.175 Analysis fo y of Space "echnology y of Space "echnology y of Space "echnology AT A11.176 "bortional "Aircraft" Design and ch Institute Design and ch Institute Design and
AT A11.175 Analysis fo y of Space echnology y of Space echnology AT A11.176 oortional Aircraft Design and ch Institute Design and ch Institute Design and
Analysis fo y of Space rechnology y of Space <u>rechnology</u> <u>AT A11.176</u> <i>ortional</i> <i>Aircraft</i> Design and ch Institute Design and ch Institute Design and
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Shilong Jiang	Beihang Universit
Wei Quan	Beihang Universit
SATA12	3rd Floor Meeting Room 314
Best Paper	3 层会议室 314
Chairs: Hong Qiao	Institute of Automation, CAS
Yanming Fan	AVIC Shenyang Aircraft Design and
	Research Institute
13:30-13:40	SatA12.1
1400 Cluster Space Form	ation of Manned/Unmanned Aerial
Team	
via Generalized Homogeniz	ation Control
Mengzhen Huo	Beihang Univ
Siyuan Wang	Beihang Univ
Jichuan Liu	The 54th Research Institute of
	China Electronics Technolog
	Group Corporation
Hao Wu	China Electronics Technolog
	Group Corporation
Chen Wei	Beihang Univ
13:40-13:50	SatA12
1017 INS/Stellar/RSO Tight	ly Coupled Celestial Navigation
Jiayu Wang	AVIC Flight Automatic Contro
	Research Institut
Weiping Yang	AVIC Flight Automatic Contro
	Research Institut
Guoliang Yang	AVIC Flight Automatic Contro
	Research Institut
Yu Tian	AVIC Flight Automatic Contro
	Research Institut
Xiaokun Ding	AVIC Flight Automatic Contro
5	Research Institut
13:50-14:00	SatA12
1413 Rapid Trajectory Plan	ning Considering Uncertainties for
Hypersonic Glide Vehicles	
Yu Xie	National Univ of Defens
	Technolog
Yuanlong Zhang	National Univ. of Defens
· · ··································	Technolog
Jianwen Zhu	Rocket Force Univ. of Engineerin
14:00-14:10	SatA12
1252 Autonomous naviga	tion method for planetary landing
hased	ion method for planetary landing
on observability degree of a	equential image
on observability degree 01 S	Rejijing Institute of Spacocrat
Jiaxing Li	Svetem Engineerin
	Beijing Institute of Spacess
Dayi Wang	
Runran Deng	Beijing institute of Spacecra
	System Engineerin
	Beijing Institute of Spacecra
Tianshu Dong	0 · - · ·
Tianshu Dong	System Engineering

Game			
Shuxin Xue		Nanjing Univ.	of Aeronautics and
			Astronautics
Yajie Ma		Nanjing Univ.	of Aeronautics and
			Astronautics
Bin Jiang		Nanjing Univ.	of Aeronautics and
			Astronautics
Wenbo Li		Beijing	Institute of Contro
			Engineering
Chengrui Liu		Beijing	Institute of Contro
			Engineering
14:20-14:30			SatA12.6
693 Self-Learning	Metamodel	Disturbance	Observer-Based

Composite Control for Coarse Pointing Assembly

Yongjian Yang	Beihang Univ.
Jianzhong Qiao	Beihang Univ.
Yukai Zhu	Beihang Univ.
Lei Guo	Beihang Univ.
14:30-14:40	SatA12.7
862 Residual Energy Metric	c for Efficient Filter Pruning
Yucheng Jiang	Northwestern Polytechnical Univ
Xiwen Yao	Northwestern Polytechnical Univ
Xuguang Yang	Northwestern Polytechnical Univ
Shuai Wang	Northwestern Polytechnical Univ
Yaxuan Jia	Northwestern Polytechnical Univ
Gong Cheng	Northwestern Polytechnical Univ
Junwei Han	Northwestern Polytechnical Univ
14:40-14:50	SatA12.8
1439 A Novel Fatigue Dete	ction Method based on Video
Transformer	
Yuqing Zhong	Capital Normal Univ.
Tie Liu	Capital Normal Univ.
Yonghong Yang	Capital Normal Univ.
Zhuhong Shao	Capital Normal Univ.
Yuanyuan Shang	Capital Normal Univ.
Hui Ding	Capital Normal Univ.
14:50-15:00	SatA12.9
1727 Enhancing Quadroto	r Control in Wind Disturbances using
Hybrid RL-Augmented MPC	2
Menavun Wana	National Univ. of Defense
Mengyun Wang	Technology
Yunzhuo Liu	National Univ. of Defense
	Technology
Vifena Niu	National Univ. of Defense
	Technology
15:00-15:10	SatA12.10
488 Research on autonomo	ous decision-making scheme of
beyond visual range air cor	nbat
Wenfei Wang	Air Force Engineering Univ.
Le Ru	Air Force Engineering Univ.
Maolong Lv	Air Force Engineering Univ.

1084 Data-Based Spacecraft Rendezvous Control by SINDy

Jinhe Wang

15:10-15:20

Jin Tan	Sichuan Univ.
Guangren Duan	Harbin Institute of Technology
Mingming Shi	Sichuan Univ.
Bin Li	Sichuan Univ.
15:20-15:30	SatA12.12
957 Covariance-Switch	based Invariant Extended Kalman Filter fo
Multi-Source Fusion	
Jiale Han	Shanghai Jiao Tong Univ.
Wei Ouyang	Shanghai Jiao Tong Univ.
Maoran Zhu	Shanghai Jiao Tong Univ.
Yuanxin Wu	Shanghai Jiao Tong Univ.
15:50-16:00	SatA12.13
673 A Weight-Based Gr	oup Decision Controller For Air-Ground
Collaborative Multi-Unm	anned Systems
Haichao Liu	Shanghai Univ.
Juntong Qi	Shanghai Univ.
Yan Peng	Shanghai Univ.
Yuan Ping	EFY Intelligent Control (Hainan)
	Technology Co. Itd
Chong Wu	EFY Intelligent Control (Hainan)
	Technology Co. Itd
Mingming Wang	Tianjin Univ.
16:00-16:10	SatA12.14
1530 Evasion Maneuve	r Strategy and Timing Optimization
Method for UAVs	
Mengke Zhao	Tsinghua Univ.
Heng Shi	- Tsinghua Univ.
Minchi Kuang	Tsinghua Univ.
Jihong Zhu	Tsinghua Univ.
16:10-16:20	SatA12.15
1200 Finite-Time Tracki	ng Control for Output-Constrained
Flexible-	
Joint Robot	
Oinstan Mans	Nanjing Univ. of Science and
Qingtan meng	Technology
Oion Mo	Nanjing Univ. of Science and
Qian Ma	Technology
Vingkong Vio	Nanjing Univ. of Science and
	Technology
Zhon Wong	Shandong Univ. of Science and
Zhen wang	Technology
16:20-16:30	SatA12.16
1355 An orbit design me	ethod for a single spacecraft to visit
multiple targets	
Zenan Zhong	Harbin Institute of Technology
Zhongviong Sun	Beijing Institute of Space Long March
Zhengxiang Sun	Vehicle
Songyan Wang	Harbin Institute of Technology
Tao Chao	Harbin Institute of Technology
Ming Yang	Harbin Institute of Technology
16:30-16:40	SatA12.17
555 Novel Fractional-or	der ESO based distributed control
within a curve virtual tub	e for multi-agent systems
Shike Long	Guilin Univ. of Aerospace technology

SatA12.11

Air Force Engineering Univ.

Shanlin Sun	Guilin Univ. of Aerospace technology
Yongjun Wang	Guilin Univ. of Aerospace technology
	Beijing Zhuoyi Intelligent Technology
Wenhao Xia	Co., Ltd.
Pengyuan Shao	Xi'an Aeronautical Institute
16:40-16:50	SatA12.18
1461 Investigating Hype	rnode Classification of Social
Collective Behavior Base	ed on High Order Graph Neural
Networks	
Jiawen Chen	Southeast Univ.
Yanyan He	Southeast Univ.
Duxin Chen	Southeast Univ.
Wenwu Yu	Southeast Univ.
SatB1	3rd Floor Meeting Room 305
Learning GNC	三层会议室 305
Chairs: Xinglong Zhang	National Univ.of Defense Technology
Cong Li	National Univ.of Defense Technology
15:50-15:58	SatB1.1
510 Maneuver-compensat	ed guidance law for end-guided
targets under side-window	constraints
Liya Li	Tiangong Univ.
Xulong Zhang	Tiangong Univ.
Guoyuan Qi	Tiangong Univ.
Shishen Wang	Tiangong Univ.
Hualong Yan	China fire and rescue institute
15:58-16:06	SatB1.2
1265 Research on human	-machine shared control technology
based on brain-computer	interface
Hui Xiong	Tiangong Univ.
Jiahe Li	Tiangong Univ.
Jinzhen Liu	Tiangong Univ.
16:06-16:14	SatB1.3
1028 A Novel Kinematic M	odel Based Motion Estimation Method
of the Non-cooperative Ta	rget with Monocular Optical Sensor
Mingjiang Zhang	Beijing Institute of Spacecraft System
	Engineering
Rui Xiu	Beijing Institute of Aerospace Control
	Devices
Bo Shen	Beijing Institute of Astronautical
	Systems Engineering
16:14-16:22	SatB1.4
1227 Reliability Prediction	Method for Degradation Failures in
Reaction Wheels	
Ziyang Lu	Sun Yat-sen Univ.
Fangzhou Fu	Sun Yat-sen Univ.
Muye Yu	Sun Yat-sen Univ.
Zhen Qian	Sun Yat-sen Univ.
16:22-16:30	SatB1.5
238 Model prediction of ol	oservation information based on
Koopman operator in optic	cal relative navigation
Xiaohong Zhang	National Univ.of Defense Technology
Haiyin Zhou	National Univ.of Defense Technology
Bowen Hou	National Univ.of Defense Technology
Yijie Zhang	National Univ.of Defense Technology

258 Detection Method for Abnormal Constant Output of Satellite				
Star Sensors in Orbit				
Huadong Tian	Beijing Institute of Spacecraft System			
	Engineering			
Hongfei Li	Beijing Institute of Spacecraft System			
	Engineering			
Rui Qiu	Beijing Institute of Spacecraft System			
	Engineering			
Yuanvuan Tu	Beijing Institute of Spacecraft System			
	Engineering			
16:38-16 [.] 46	SatB1 7			
332 Position protection	management method for electric			
propulsion of geostationar	v satellites			
Rui Qiu	Beijing Institute of Spacecraft System			
	Engineering			
Hongfoili	Boiiing Institute of Spacecraft System			
Mingliong Zhong	Engineering			
Mingliang Zhang	Beijing Institute of Spacecraft System			
	Engineering			
Huadong Tian	Beijing Institute of Spacecraft System			
	Engineering			
16:46-16:54	SatB1.8			
423 Evaluation research	based on entropy weight and multi-			
index comprehensive heal	th index method			
Jia Weng	Beijing Institute of Spacecraft System			
	Engineering			
Meihong Li	Beijing Institute of Spacecraft System			
	Engineering			
Weiwei Wang	Beijing Institute of Spacecraft System			
	Engineering			
16:54-17:02	SatB1.9			
556 A Method for the U	Jnified Modelling and Estimation of			
Systematic Errors in Image	e-Based Relative Navigation Systems			
Bowen Sun	National Univ.of Defense Technology			
Dayi Wang	Beijing Institute of Spacecraft System			
	Engineering			
Xuanving Zhou	National Univ.of Defense Technology			
Haivin Zhou	National Univ.of Defense Technology			
Maodeng Li	Beijing Institute of Spacecraft System			
maadang L	Engineering			
lionggi Wang	National Univ of Defense Technology			
17:02 17:10	SetP1 10			
17.02-17.10				
590 An emclent method it				
of space targets based on	sequential images			
radan Jiang				
Haiyin Zhou	National Univ.of Defense Technology			
Jiongqi Wang	National Univ.of Defense Technology			
Jiaxing Li	Beijing Institute of Spacecraft System			
	Engineering			
Bowen Hou	National Univ.of Defense Technology			
Bowen Sun	National Univ.of Defense Technology			
17:10-17:18	SatB1.11			

National Univ.of Defense Technology

SatB1.6

Jiongqi Wang

16:30-16:38

Anomaly Detection of Satellite Power System Based on Long Short-Term Memory Network Prediction

Juhui Wei	National Univ.of Defense Technology
Jiongqi Wang	National Univ.of Defense Technology
Zhangming He	National Univ.of Defense Technology
Xuanying Zhou	National Univ.of Defense Technology
Bowen Hou	National Univ.of Defense Technology
17:18-17:26	SatB1.12
598 基于深度强化学习的	多无人车协同路径规划方法研究
Shengtan Dai	Nanjing Univ. of Aeronautics and
	Astronautics
Yin Wang	Nanjing Univ. of Aeronautics and
	Astronautics
Chenchen Shang	Nanjing Univ. of Aeronautics and
	Astronautics
Muqing Su	Nanjing Univ. of Aeronautics and
	Astronautics
17:26-17:34	SatB1.13
612 面向逆轨拦截机动目间	际的深度强化学习制导算法
Qingcheng Wan	Naniing Univ. of Aeronautics and
	Astronautics
Meng Yu	Naniing Univ of Aeronautics and
	Astronautics
Yubaoli	Naniing Univ of Aeronautics and
10000 2.	Astronautics
17:34-17:42	SatB1 14
1465 A High-visibility Path	Planning for Tracking Moving Targets
Yulan	Reibang Univ
Ta Ean	Demany Oniv.
Daweili	Beihang Univ
Dawei Li Chenlong Zhang	Beihang Univ. Beihang Univ
Dawei Li Chenlong Zhang	Beihang Univ. Beihang Univ. 3rd Eloor Meeting Room 306
Dawei Li Chenlong Zhang SatB2 Planning GNC	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306
Dawei Li Chenlong Zhang SatB2 Planning GNC	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ersben Wang	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 ry Planning between Continuous
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 ry Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li Bo Zhu	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 ry Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li Bo Zhu Dong Zhang	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 ry Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ. Sun Yat-sen Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li Bo Zhu Dong Zhang 16:06-16:14	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 y Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li Bo Zhu Dong Zhang 16:06-16:14 486 Robust Synchronizatio	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 y Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. SatB2.3 on Control of Heterogeneous Systems
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li Bo Zhu Dong Zhang 16:06-16:14 486 Robust Synchronizatii with Underactuated and C	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 ry Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ. Sun Yat-sen Univ. SatB2.3 on Control of Heterogeneous Systems veractuated Helicopters
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li Bo Zhu Dong Zhang 16:06-16:14 486 Robust Synchronizatii with Underactuated and C Shiyao Li	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 ry Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ. Sun Yat-sen Univ. SatB2.3 on Control of Heterogeneous Systems veractuated Helicopters Harbin Institute of Technology
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li Bo Zhu Dong Zhang 16:06-16:14 486 Robust Synchronization with Underactuated and Co Shiyao Li Baoqing Yang	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 Ty Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ. Sun Yat-sen Univ.
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li Bo Zhu Dong Zhang 16:06-16:14 486 Robust Synchronizatii with Underactuated and C Shiyao Li Baoqing Yang Jie Ma	Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 Y Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. SatB2.3 on Control of Heterogeneous Systems veractuated Helicopters Harbin Institute of Technology Harbin Institute of Technology
Dawei Li Chenlong Zhang SatB2 Planning GNC Chairs: Bo Zhu Ershen Wang 15:50-15:58 189 The Application of Control in Micro Quadro U Yanjie Min Dawei Li Xuyang Gao 15:58-16:06 283 Dynamic Trajector Waypoints for the Redund Ting Li Bo Zhu Dong Zhang 16:06-16:14 486 Robust Synchronizatio with Underactuated and C Shiyao Li Baoqing Yang Jie Ma Zixiao Yang	Beihang Univ. Beihang Univ. Beihang Univ. 3rd Floor Meeting Room 306 三层会议室 306 Sun Yat-sen Univ. Shenyang Aerospace Univ. Shenyang Aerospace Univ. SatB2.1 Linear Active Disturbance Rejection AV Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SatB2.2 Y Planning between Continuous ant Cable-Driven Parallel Robot Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. Sun Yat-sen Univ. SatB2.3 on Control of Heterogeneous Systems veractuated Helicopters Harbin Institute of Technology Harbin Institute of Technology Harbin Institute of Technology Harbin Institute of Technology

on	16:14-16:22	SatB2.4
	524 Virtual Reality-based	Solo Teleoperation for Aerial
logy	Manipulator Collaboration Sys	stem
logy	Jiayu Liu	Harbin Institute of Technology
logy	Zhan Li	Harbin Institute of Technology
logy	Mingjun Wang	Harbin Institute of Technology
logy	Hai Li	Harbin Institute of Technology
1.12	Chen Dong	Harbin Institute of Technology
	Quman Xu	Harbin Institute of Technology
and	16:22-16:30	SatB2.5
utics	1130 Research on Active Dist	urbance Rejection Control Method
and	for Electro-Hydrostatic Actuat	ors
utics	Haoyang Li	Beijing Univ. of Posts and
and		Telecommunications
utics	Lei Han	Beijing Univ. of Posts and
and		Telecommunications
utics	16:30-16:38	SatB2.6
1.13	497 Attitude Calculation of	Unmanned Underwater Vehicle
	Based on Multi sensor Data F	Fusion
and	Gao Wang	Guilin Univ. of Electronic
itics		Technology
and	Yongjun Wang	Guilin Univ. of Electronic
itics		Technology
and	Zhi Li	Guilin Univ. of Electronic
itics		Technology
.14	16:38-16:46	SatB2.7
gets	786 Integrated navigation ya	w correction based on underwater
niv.	polarized light assistance	
niv.	Jicheng Ding	Harbin Engineering Univ.
niv.	Jiaxuan Hou	Harbin Engineering Univ.
306	Na Liu	
306	Zhijian Pan	
Univ.		Harbin Engineering Univ.
	16:46-16:54	SatB2.8
(DZ. 1	1118 A Robust Filtering Algori	thm for GNSS/INS Integrated
tion	Navigation System Based on	
ah.	Diri Lari	
niv.	Frahan Wang	Shanyang Aaraanaaa Uniy
niv.	Vongiun Wong	Guilin Univ. of Aprospace
1117.	rongjun wang	Technology
0110	Yilin He	
ous	Zevu Tang	Guilin Univ of Aerosnace
lniv	Zeyu lung	Technology
niiv. Iniv	16:46-16:54	SatB2 9
niiv. Iniv	1176 Intelligent visual monitor	pring terminal for low-altitude LIAV
32.3	detection	ang terrinda for fow-diatade DAV
<u>52.5</u>	Qian Gao	Liaoning General Aviation
51115		Academy
001/	Minggi Zhou	Shenyang Aerospace Univ
ogy	Teng Ma	Shenvang Aerospace Univ
odv Aði	Chuanyun Wang	Shenyang Aerospace Univ.
-97 Iniv	Tian Wang	Beihang Univ.
Iniv.	16:54-17:02	SatB2.10

Oian Gao	
Qian Gao	
N 41 · · · · · ·	Academy
	Shenyang Aerospace Univ.
	Shenyang Aerospace Univ.
	Snenyang Aerospace Univ.
	Beihang Univ.
17:02-17:10	SatB2.11
708 A Whole-Body Compliand	ce Control Strategy of Truss
Crawling for Multi-Arm Space Ro	bots
Zijian Dai	Harbin Institute of Technology
	Shenzhen
Peiji Wang	Harbin Institute of Technology
	Shenzhen
Tao Lin	Harbin Institute of Technology
Chengfei Yue	Harbin Institute of Technology
	Shenzhen
17:10-17:18	SatB2.12
710 基于预定时间收敛滑模控制。	的上面级姿态控制
Mingze Wang	Beijing Electronic Engering
	System Insitute
Haibin Li	Beijing Electronic Engering
	System Insitute
Tao Shen	Beijing Electronic Engering
	System Insitute
Tong Liang	Beijing Electronic Engering
	System Insitute
17:18-17:26	SatB2.13
937 Convex optimization guidance	ce of ascent trajectory
sequence with free final time	
Haopeng Wang	Northwestern Polytechnical
	Univ.
Yibo Ding	Northwestern Polytechnical
	Univ.
Xiaokui Yue	Northwestern Polytechnical
	Univ.
17:26-17:34	SatB2.14
1046 Null-space-based Connec	tivity Preservation Control for
Spacecraft Formation Flving	
Xianghong Xue	Xi'an Univ. of Technology
Tianhang Song	Xi'an Univ. of Technology
Youmin Zhang	Concordia Univ.
Boiun Liu	Xi'an Univ. of Technology
Wenva Wan	Xi'an Univ. of Technology
Lingxia Mu	Xi'an Univ. of Technology
17:42-17:50	SatB2 15
1721 Review of nath planning ald	corithms for mobile robots
Yining Zhi	Xi'an Univ of Science and
	Technology
Keke Shi	Xi'an Univ of Science and
	Technology
Xingchen Liu	Xi'an Univ of Science and
	recimology
0-400	Oud Elsen Manther Dr

Dynamic GNC	3 层会议室 307
Chairs: Xiao Liang	Nankai Univ.
Hang Su	Beihang Uni
15:50-15:58	SatB3.1
250 A new nonlinear desig	n for the elastic hanging model and
control law of quadrotor UA	AV
Hang Guo	Tianjin University of Technology
Sen Yang	Tianjin University of Technology
Jigang Tong	Tianjin University of Technology
Tian Xie	Tianjin University of Technology
15:58-16:06	SatB3.2
893 Coordinated Transpo	rtation of Tethered Multi-rotor UAVs
under Wind Disturbance	
Ya Liu	Shanghai Jiao Tong University
Yanling Lai	Shanghai Jiao Tong University
Fan Zhang	Northwestern Polytechnica
	University
16:06-16:14	University SatB3.3
16:06-16:14 <mark>932</mark> Velocity Observer-bas	University SatB3. ed Safety-critical Vision Landing of a
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve	University SatB3. ed Safety-critical Vision Landing of a hicle
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve Qianqian Cao	University SatB3.3 red Safety-critical Vision Landing of a hicle Nankai University
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu	University SatB3.: ed Safety-critical Vision Landing of a hicle Nankai University Nankai University
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang	University SatB3. ed Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang	University SatB3. ed Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University Nankai University Nankai University
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang 16:14-16:22	University SatB3.3 red Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University Nankai University SatB3.4
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang 16:14-16:22 1292 Nonlinear MPC-Base	University SatB3.3 red Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University Nankai University SatB3.4 d Gains Auto-Tuning Control for Aerial
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang 16:14-16:22 1292 Nonlinear MPC-Base Transportation System with	University SatB3.3 sed Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University Nankai University SatB3.4 d Gains Auto-Tuning Control for Aerial of Double-Pendulum Swing Effects
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang 16:14-16:22 1292 Nonlinear MPC-Base Transportation System with Bingbing Liu	University SatB3. Intel Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University Nankai University SatB3.4 d Gains Auto-Tuning Control for Aerial In Double-Pendulum Swing Effects Nankai University
16:06-16:14 932 Velocity Observer-bas Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang 16:14-16:22 1292 Nonlinear MPC-Base Transportation System with Bingbing Liu Hai Yu	University SatB3. SatB3. Seed Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University SatB3. d Gains Auto-Tuning Control for Aeria n Double-Pendulum Swing Effects Nankai University Nankai University
16:06-16:14 932 Velocity Observer-bass Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang 16:14-16:22 1292 Nonlinear MPC-Base Transportation System with Bingbing Liu Hai Yu Wei He	University SatB3. and Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University SatB3. d Gains Auto-Tuning Control for Aeria n Double-Pendulum Swing Effects Nankai University Nankai University Nankai University
16:06-16:14 932 Velocity Observer-bass Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang 16:14-16:22 1292 Nonlinear MPC-Base Transportation System with Bingbing Liu Hai Yu Wei He Yongchun Fang	University SatB3. SatB3. Seed Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University d Gains Auto-Tuning Control for Aeria. Double-Pendulum Swing Effects Nankai University Nankai University Nankai University Nankai University Nankai University
16:06-16:14 932 Velocity Observer-bass Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang 16:14-16:22 1292 Nonlinear MPC-Base Transportation System with Bingbing Liu Hai Yu Wei He Yongchun Fang Jianda Han	University SatB3.3 sed Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University SatB3.4 d Gains Auto-Tuning Control for Aerial n Double-Pendulum Swing Effects Nankai University Nankai University Nankai University Nankai University Nankai University Nankai University
16:06-16:14 932 Velocity Observer-bass Quadrotor on a Ground Ve Qianqian Cao Shizhen Wu Yongchun Fang Xiao Liang 16:14-16:22 1292 Nonlinear MPC-Base Transportation System with Bingbing Liu Hai Yu Wei He Yongchun Fang Jianda Han Xiao Liang	University SatB3.3 sed Safety-critical Vision Landing of a hicle Nankai University Nankai University Nankai University atB3.4 d Gains Auto-Tuning Control for Aerial Double-Pendulum Swing Effects Nankai University Nankai University Nankai University Nankai University Nankai University Nankai University Nankai University Nankai University Nankai University Nankai University

Xiao Li	China University of Petroleum East
	China.
Yanpeng Yang	China University of Petroleum East
	China
Wei Li	China University of Petroleum East
	China
Jingyu Zhou	China University of Petroleum East
	China.
Xin'an Yuan	China University of Petroleum East
	China
16:30-16:38	SatB3.6

454 Enhancing the Heuristic Function of Improved A* Algorithm for UAV Robotic Arm Path Planning Using Dynamic Pigeon-Inspired Optimization

Lihaoqi Zheng	Beihang University
Haibin Duan	Beihang University
Mengzhen Huo	Beihang University
Hao Wu	China Electronics Technology

	Group Corporation	
16:38-16:46	SatB3.7	
470 Enhanced Harris Hawk Optimized Image Segmentation		
Model for Unmanned Aerial Vehicle Remote Sensing Scene		
Segmentation		
Hang Su	Beihang University	
Yongbin Sun	Beihang University	
Haibin Duan	Beihang University	
16:46-16:54	SatB3.8	
1113 LPV Modeling and Robust G	ain Scheduling Control of a	
Class of Quadrotor UAVs with Tilt	Rotors	
Mengyu Gao	Northwestern Polytechnical	
	University.	
Yue Li	Northwestern Polytechnical	
	University	
Jun Yang	Northwestern Polytechnical	
Ū.	University	
16:54-17:02	SatB3.9	
1186 UAV-Assisted Secure Comm	nunication System with Dynamic	
Constraints		
Hongyun Zhang	Sichuan University	
Bin Li	Sichuan University	
Zhen-Qing He	Sichuan University	
17:02-17:10	SatB3 10	
217 Predefined Time Fault Tolera	at Control for Hypersonic	
Vehicles Linder Actuator Fault	it control for Hypersonic	
FongZhong Chon	Poihong University	
	Beihang University	
	Beinang University	
	Beinang University	
17:10-17:18	SatB3.11	
814 Enhancing Active Defense v	with a Predictive Guidance Law	
Based on Constant Maneuvering E	nvelope	
Heng Shi		
Minchi Kuang	Isinghua University	
Jihong Zhu	Tsinghua University	
17:18-17:26	SatB3.12	
1299 Research on modeling me	ethod of adaptive cycle engine	
based on intelligent hybrid solving	algorithm	
∠hidan Liu	Tsinghua University	
Xiangyang Wang	Tsinghua University	
Yunjie Yang	Tsinghua University	
Jihong Zhu	Tsinghua University	
17:26-17:34	SatB3.13	
1699 Design of a Three-Dimensi	ional Visualization System	
for Path Planning in Unmanned	Aerial Vehicles	
Xiangyuan Fan	Deep Space Exploration	
	Laboratory	
Danfeng Wu	Beijing Union University	
Longjie Gao	Xinjiang University	
17:34-17:42	SatB3.14	
703 基于近端策略优化的动作切	换导航算法	
Yuhang Zhang	Beijing Institute of Technology	
Yanmin Liu	Beijing Institute of Technology	

Zuowei Wang	QCRAFT Limited	
Haikuo Liu	Beijing Institute of Technology	
Zhen Li	Beijing Institute of Technology	
Wenjie Chen	Beijing Institute of Technology	
17:42-17:50	SatB3.15	
1610 PCIe-based Multi-	node Efficient Interconnection	
Mechanism Design		
Zhenpeng Xu	Jiangsu Automation Research	
	Institute	
Yunxiang Xianyu	Jiangsu Automation Research	
	Institute	
Chuan Xia	Jiangsu Automation Research	
	Institute	
SatB4	3rd Floor Meeting Room 309	
Formation GNC	3 层会议室 309	
Chairs: Mengyun Wang	National Univ.of Defense Technology	
Zhihong Liu	National Univ.of Defense Technology	
5:50-15:58	SatB4.1	
234 On the Rotation an	d Stop Time of Rotary Inertial Navigation	
System		
Ruitao Li	Naval Aviation University	
Shenghong Xu	Naval Aviation University	
15:58-16:06	SatB4.2	
336 一种基于无人机编制	从统一模型的自适应反演控制方法	
Junwei Lei	Naval Aviation University	
Bing Wan	Naval Aviation University	
Lei Meng	ہ Naval Aviation University	
Chao Dong	Naval Aviation University	
Qiang Wang	Naval Aviation University	
Xiuzhen Wu	Naval Aviation University	
16:06-16:14	SatB4.3	
175 Time-Optimal Path	Following Control of Multi-Rotor UAV	
Based on Wavpoints		
ZhiCai Xiao	Naval Aviation University	
Lingsong Di	Naval Aviation I Iniversity	
Haonan Wu	Naval Aviation I Iniversity	
Xiuzhen Wu	Naval Aviation I Iniversity	
Yahui Qi	Naval Aviation I Iniversity	
16.14-16.22	SatR/ A	
32 Research on Traiec	tory Tracking and Point Control	
Strategies for Multi-roto	UAVs	
Linasona Di	Naval Aviation University	
Yahui Qi	Naval Aviation I Iniversity	
Defend Sun	Naval Aviation University	
Zhicaj Xiao	Naval Aviation University	
Dong Zhang	Naval Aviation University	
10.22-10.3U	SatB4.5	
97 Motion target detec	tion method based on optical flow and	
notion vector fusion	N N N N N N N N N N	
Snangcong Lí	Naval Aviation University	
Luyu Liu	Naval Aviation University	
Liang Qin	Naval Aviation University	
Haiyu Li	Naval Aviation University	
16:30-16:38	SatB4.6	

284 Improved	Glasius Bio-inspired Neural Network for Target
Search	
Jian Yang	Wuhan Second Ship Design and
	Research Institute
Cai Xu	The Third Military Representative
	Office of the Naval Equipment
	Department in Wuhan
Wang Li	Wuhan Second Ship Design and
	Research Institute
Yabo Wang	Wuhan Second Ship Design and
	Research Institute
XuDong Yu	National University of Defense
	Technology

16:38-16:46 SatB4.7 1052 Design on Measurement and Control Scheme of Multibeam Sounding System Segmentation Na Zhang Nanjing University of Posts and Telecommunications Shuhan Chen Nanjing University of Posts and Telecommunications Shixun Xiong Nanjing University of Posts and Telecommunications Fengying Zhang Hengmei Optoelectronic Corporation 16:46-16:54 SatB4.8 1143 Autonomous Decision-Making of Drone Swarm based on Deep Reinforcement Learning Na Zhang Nanjing University of Posts and Telecommunications Shuhan Chen Nanjing University of Posts and Telecommunications Shixun Xiong Nanjing University of Posts and Telecommunications Fengying Zhang Hengmei Optoelectronic

 16:54-17:02
 SatB4.9

 1350
 Decision-making for Ship Formation Centroid Jamming

 Based on Reinforcement Learning

	Yiran Chen	Harbin Institute of Technology
	Guoxing Yi	Harbin Institute of Technology
	Hao Wang	Harbin Institute of Technology
	Yisong Zhang	Harbin Institute of Technology
	Yu Cheng	Harbin Institute of Technology
	Zhennan Wei	Harbin Institute of Technology
	17:02-17:10	SatB4.10
4	120 Path planning of unmanned	d surface vessel based on
i	mproved Dyna-Sarsa algorithm	1
	Peng Zhao	Harbin Engineering University
	Enjiao Zhao	Harbin Engineering University
	Yujing Yang	Harbin Engineering University
	Kefei Yuan	Wuhan Second Ship Design and
		Research Institute
	17:10-17:18	SatB4.11
1		

834 Multi-AUV Cooperative Positioning Algorithm Based on Factor Graph

Jian Yang	Wuhan Second Ship Design and
	Research Institute
Hong Zhu	Harbin Institute of Technology
Yabo Wang	Wuhan Second Ship Design and
	Research Institute
Wei Gao	Harbin Institute of Technology
Cai Xu	The Third Military Representative
	Office of Naval Equipment
	Department in
	Wuhan
17:18-17:26	SatB4.12
775 A Novel Frame-Evel	nt Fusion Framework for High-frequency
Tracking	
Heyi Quan	Beihang University
Qingdong Li	Beihang University
Jianglong Yu	Beihang University
Xiwang Dong	Beihang University
17:26-17:34	SatB4.13
1088 Configuration opti-	mization for dynamic pressure-assisted
measurement based Mar	s atmosphere entry navigation
Pengzhi Li	Beijing Institute of Technology
Jiateng Long	Beijing Institute of Technology
Xini Niu	Beijing Institute of Technology
Zhengjia Fan	Beijing Institute of Technology
17:34-17:42	SatB4.14
1357 Trajectory Optimiza	tion for Hypersonic Gliding Vehicle Using
Lossless Convexification	
Zhenghao Shi	Beijing Institute of Technology
Xiaosong Li	China Academy of Launch Vehicle
	Technology
Lei Zhang	China Academy of Launch Vehicle
	Technology
Zixuan Liang	Beijing Institute of Technology
17:42-17:50	SatB4.15
1640 Simultaneous Wea	pon-Target Assignment for Cooperating
UAVs Based on Spatio-Te	emporal Constraints
Boyang Shen	Beijing university of technology
Heng Deng	Beijing university of technology
Yangguang Cai	Shanghai Electro-Mechanical
	Engineering Institute
Duhao Li	Beijing university of technology
SatB5	3rd Floor Meeting Room 310
Modelling GNC	3 层会议室 310
Chairs: Cong Peng	Nanjing Univ. of Aeronautics
	and Astronautics
Yanbin Liu	Nanjing Univ. of Aeronautics
	and Astronautics
15:50-15:58	SatB5.1
890 Digital Twin-Driven O	nline Health Status Prediction of Power
MOSFETs	
Jinquan Yang	Nanjing University of Aeronautics
	and Astronautics
Jiangnan Ji	Nanjing University of Aeronautics
	and Astronautics

Corporation

Xinyu Li	Nanjing University of Aeronautics
	and Astronautics
Quanzhou Chen	Nanjing University of Aeronautics
	and Astronautics
Cong Peng	Nanjing University of Aeronautics
	and Astronautics
15:58-16:06	SatB5.2
902 Adaptive Tracking C	ontrol for Unmanned Helicopter based
on Multi-Dimensional Tay	vlor Network
Yudong Li	Nanjing University of Aeronautics
	and Astronautics
Zhiyang He	Nanjing University of Aeronautics
	and Astronautics
Haibo Wang	Nanjing University of Aeronautics
	and Astronautics
Shuang Shi	Nanjing University of Aeronautics
	and Astronautics
16:06-16:14	SatB5.3
676 A High Fidelity N	lodeling Method for Aircraft Engine
Degradation Tracking	
Bei Li	Nanjing University of Aeronautics
	and Astronautics
Cong Peng	Nanjing University of Aeronautics
	and Astronautics
Sumu Shi	Nanjing University of Aeronautics
	and Astronautics
Sijia Yu	Nanjing University of Aeronautics
	and Astronautics
Zheyan Ji	Nanjing University of Aeronautics
	and Astronautics
16:14-16:22	SatB5.4
733 A Real-time Prediction	on Method for SOH of Lithium-ion
Batteries Based on Digita	al Twins
Jiayin Zhu	Nanjing University of Aeronautics
	and Astronautics
Yu Wang	Nanjing University of Aeronautics
	and Astronautics
Cong Peng	Nanjing University of Aeronautics
	and Astronautics
16:22-16:30	SatB5.5
827 Formation Tracking of	of UAV Cluster Systems
Based on Disturbance Ol	bserver
Xinle Zhang	Nanjing University of Aeronautics and
	Astronautics
Ju Jiang	Nanjing University of Aeronautics and
	Astronautics
16:30-16:38	SatB5.6
885 Remaining Useful Lif	e Prediction of Power MOSFETs Based
on UnetTSF	
Jinquan Yang	Nanjing University of Aeronautics
	and Astronautics
Quanzhou Chen	Nanjing University of Aeronautics
	and Astronautics
Xinyu Li	Nanjing University of Aeronautics

	and Astronautics
Jiangnan Ji	Nanjing University of Aeronautics
	and Astronautics
Cong Peng	Nanjing University of Aeronautics
	and Astronautics
16:38-16:46	SatB5.7
945 基于动态逆的飞行	F器质心突变L1 自适应控制
Xiang Kong	Nanjing University of Aeronautics and
	Astronautics
Zunshi Shui	Beijing Institute of Aerospace
	Technology
Yanbin Liu	Nanjing University of Aeronautics and
	Astronautics
Haidong Shen	Nanjing University of Aeronautics and
	Astronautics
16:46-16:54	SatB5.8
981 折叠翼垂直起降飞	<i>行器多体动力学建模和控制</i>
Hailong Lv	Nanjing University of Aeronautics
	and Astronautics
Yanbin Liu	Nanjing University of Aeronautics
	and Astronautics
Boyi Chen	Nanjing University of Aeronautics
	and Astronautics
16:54-17:02	SatB5.9
1177 Air data estimati	on based on integrating FADS/INS for flight
control of UAV	
DiBo Xiao	Chengdu University of Information
	and Technology
JunJie Wang	Chengdu University of Information
	and Technology
17:02-17:10	
	SatB5.10
1311 具有不确定性的	SatB5.10 倾转旋翼机过渡模态模糊控制设计
1311 <i>具有不确定性的</i> / Kun Yan	SatB5.10 <i>倾转旋翼机过渡模态模糊控制设计</i> Xi'an Technology University
<mark>1311</mark> <i>具有不确定性的(</i> Kun Yan Mengyao Niu	SatB5.10 <i>倾转旋翼机过渡模态模糊控制设计</i> Xi'an Technology University Xi'an Technology University
1311 具有不确定性的(Kun Yan Mengyao Niu Chaobo Chen	SatB5.10 倾转旋翼机过渡模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University
1311 具有不确定性的(Kun Yan Mengyao Niu Chaobo Chen Haidong Shen	SatB5.10 倾转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics
1311 具有不确定性的(Kun Yan Mengyao Niu Chaobo Chen Haidong Shen	SatB5.10 倾转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18	SatB5.10 倾转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M	SatB5.10 倾转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R	SatB5.10 倾转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Reinforcement Learning
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang	SatB5.10 顺转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Reinforcement Learning Beihang University
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang	SatB5.10 顺转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Reinforcement Learning Beihang University Beihang University
1311 具有不确定性的(Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li	SatB5.10 倾转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Node Guidance Law with Intersection Angle Reinforcement Learning Beihang University Beihang University Beihang University
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li Jianglong Yu	SatB5.10 倾转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Reinforcement Learning Beihang University Beihang University Beihang University Beihang University
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li Jianglong Yu Xiwang Dong	SatB5.10 倾转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Reinforcement Learning Beihang University Beihang University Beihang University Beihang University Beihang University
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li Jianglong Yu Xiwang Dong Zhang Ren	SatB5.10 顺转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Reinforcement Learning Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li Jianglong Yu Xiwang Dong Zhang Ren 17:18-17:26	SatB5.10 顺转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Reinforcement Learning Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li Jianglong Yu Xiwang Dong Zhang Ren 17:18-17:26 604 基于事件触发的柔	SatB5.10 顿转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Reinforcement Learning Beihang University Beihang University
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li Jianglong Yu Xiwang Dong Zhang Ren 17:18-17:26 604 基于事件触发的柔 Shengjie Xing	SatB5.10 顿转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University SatB5.12 E性机械臂执行器故障补偿 Anhui University
1311 具有不确定性的(Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding N Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li Jianglong Yu Xiwang Dong Zhang Ren 17:18-17:26 504 基于事件触发的柔 Shengjie Xing Dong Zhao	SatB5.10 顿转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 fode Guidance Law with Intersection Angle teinforcement Learning Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University SatB5.12 E性机械臂执行器故障补偿 Anhui University
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li Jianglong Yu Xiwang Dong Zhang Ren 17:18-17:26 504 基于事件触发的柔 Shengjie Xing Dong Zhao Wenjing Ren	SatB5.10 顿转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Reinforcement Learning Beihang University Beihang University
1311 具有不确定性的 Kun Yan Mengyao Niu Chaobo Chen Haidong Shen 17:10-17:18 1535 Global Sliding M Constraint Based on R Changhai Wang Rongqi Zhang Qingdong Li Jianglong Yu Xiwang Dong Zhang Ren 17:18-17:26 504 基于事件触发的柔 Shengjie Xing Dong Zhao Wenjing Ren 17:26-17:34	SatB5.10 顿转旋翼机过波模态模糊控制设计 Xi'an Technology University Xi'an Technology University Xi'an Technology University Nanjing University of Aeronautics and Astronautics SatB5.11 Mode Guidance Law with Intersection Angle Deinforcement Learning Beihang University Beihang University

716 基于自适应神经网络的四旋翼无人机固定时间指令滤波控制

	Nanjing University of Aeronautics
	and Astronautics
Chenliang Li	Nanjing University of Aeronautics
	and Astronautics
Wangkui Liu	Beijing Institute of Aerospace
	Technology
Haidong Shen	Nanjing University of Aeronautics
	and Astronautics
Yanbin Liu	Nanjing University of Aeronautics
	and Astronautics
Jinbao Chen	Nanjing University of Aeronautics
	and Astronautics
17:34-17:42	SatB5.14
870 面向控制的变构型空天	飞行器建模及特性分析
Zepeng Gao	Nanjing University of Aeronautics
	and Astronautics
Yanbin Liu	Nanjing University of Aeronautics
	and Astronautics
Haidong Shen	Nanjing University of Aeronautics
-	and Astronautics
Jinbao Chen	Nanjing University of Aeronautics
	and Astronautics
Zepeng Gao	Nanjing University of Aeronautics
	and Astronautics
17:18-17:26	SatB5.12
991 Navigation Fusion Met	hod with Improving Sensor Failure
Tolerance for Rocket Forma	ation Landings
Chonbuili	•
	Kyushu University
Mai Bando	Kyushu University Kyushu University
Mai Bando Shinji Hokamoto	Kyushu University Kyushu University Kyushu University
Mai Bando Shinji Hokamoto SatB6	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311
Mai Bando Shinji Hokamoto SatB6 Reliable GNC	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen	Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu	Kyushu University Kyushu University Xyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ.
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizai	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully-
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory	Kyushu University Kyushu University Srd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully-
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University Beijing Information Science and
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University Beijing Information Science and Technology University
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang	Kyushu University Kyushu University Srd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University Beijing Information Science and
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University Beijing Information Science and Technology University Beijing Information Science and Technology University Beijing Information Science and Technology University Beijing Information Science and Technology University
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang 15:58:16:06 1083 De-Spinning Wit	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang 15:58:16:06 1083 De-Spinning Will Characteristics Analysis of	Kyushu University Kyushu University Kyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University Beijing Info
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang 15:58:16:06 1083 De-Spinning Wit Characteristics Analysis of Control Kit	Kyushu University Kyushu University Kyushu University Srd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University Beijing Information Science and Norechnology University Beijing In
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang 15:58:16:06 1083 De-Spinning Wit Characteristics Analysis of Control Kit Xinrui Luo	Kyushu University Kyushu University Srd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University SatB6.2 ng Design and Aerodynamic High-Spinning Flight Body with Aft Beijing Institute of Technology
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang 15:58:16:06 1083 De-Spinning Wit Characteristics Analysis of Control Kit Xinrui Luo Meng Zhang	Kyushu University Kyushu University Xyushu University 3rd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University SatB6.2 mg Design mg Design Mg Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang 15:58:16:06 1083 De-Spinning Wit Characteristics Analysis of Control Kit Xinrui Luo Meng Zhang Kai Shen	Kyushu University Kyushu University Srd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University Beijing Information Science Beijing Informatio
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang 15:58:16:06 1083 De-Spinning Wit Characteristics Analysis of Control Kit Xinrui Luo Meng Zhang Kai Shen Liiuan Wang	Kyushu University Kyushu University Srd Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University Beijing Institute of Technology
Mai Bando Shinji Hokamoto SatB6 Reliable GNC Chairs: Kai Shen Jinwen Hu 15:50:15:58 805 Munition Roll Stabilizat Actuated Systems Theory Fangyi Quan Junfang Fan Sixing Zhang Wentao Tang 15:58:16:06 1083 De-Spinning Wit Characteristics Analysis of Control Kit Xinrui Luo Meng Zhang Kai Shen Lijuan Wang 16:06:16:14	Kyushu University Kyushu University Sard Floor Meeting Room 311 三层会议室 311 Beijing Institute of Technology Northwestern Polytechnical Univ. SatB6.1 tion Control Method Based on Fully- Beijing Information Science and Technology University Beijing Institute of Technology <

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Programming for Launch Se	equence Optimization	
Kai Shen	Beijing Institute of Technology	
Wenjun Guo	eijing Institute of Technology	
Zheng Xu	Beijing Institute of Technology	
Haocheng Peng	Beijing Institute of Technology	
Xinye Zhang	Beijing Institute of Technology	
16:14:16:22	SatB6.4	
1225 Spacecraft Robust	Pose Control for Contactless	
Detumbling of High-Spinnir	ng Space Debris via Fully-Actuated	
System Approach		
Feng Zhang	China Academy of Launch Vehicle	
	Technology	
Haipeng Chen	China Academy of Launch Vehicle	
	Technology	
Shengbao Wu	China Academy of Launch Vehicle	
	Technology	
16:22-16:30	SatB6.5	
4400 Outdanse Destaur fo		
1438 Guidance Design for	r the Escape Flight Vehicle Using	
Dynamic Programming Me	the Escape Flight Venicle Using thod Based on Virtual Calculation	
T438 Guidance Design for Dynamic Programming Me Technique	r the Escape Flight Venicle Using thod Based on Virtual Calculation	
Dynamic Programming Me Technique Xiao Hu	r the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University	
Dynamic Programming Me Technique Xiao Hu Hongbo Wang	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle	
1438 Guidance Design For Dynamic Programming Me Technique Xiao Hu Hongbo Wang	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Gong	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Gong	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology	
Technique Xiao Hu Hongbo Wang Min Gong Tianshu Wang	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology Tsinghua University	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Gong Tianshu Wang Kerui Jin	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology Tsinghua University Nanjing University of Science and	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Gong Tianshu Wang Kerui Jin	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology Tsinghua University Nanjing University of Science and Technology	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Gong Tianshu Wang Kerui Jin Shuai Xue	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology Tsinghua University Nanjing University of Science and Technology Nanjing University of Science and	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Gong Tianshu Wang Kerui Jin Shuai Xue	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology Tsinghua University Nanjing University of Science and Technology Nanjing University of Science and Technology	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Min Gong Tianshu Wang Kerui Jin Shuai Xue 16:30-16:38 State State State	the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology Tsinghua University Nanjing University of Science and Technology Nanjing University of Science and Technology SatB6.6	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Gong Tianshu Wang Kerui Jin Shuai Xue 16:30-16:38 248 Research on Airflow An	r the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology Tsinghua University Nanjing University of Science and Technology Nanjing University of Science and Technology SatB6.6 gle Estimation Algorithm under Low-	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Gong Tianshu Wang Kerui Jin Shuai Xue 16:30-16:38 248 Research on Airflow An Cost Sensors	r the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology Tsinghua University Nanjing University of Science and Technology Nanjing University of Science and Technology SatB6.6 gle Estimation Algorithm under Low-	
1438 Guidance Design for Dynamic Programming Me Technique Xiao Hu Hongbo Wang Min Gong Tianshu Wang Kerui Jin Shuai Xue 16:30-16:38 248 Research on Airflow An Cost Sensors Xiaochen Lyu	r the Escape Flight Venicle Using thod Based on Virtual Calculation Tsinghua University China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology Tsinghua University Nanjing University of Science and Technology Nanjing University of Science and Technology SatB6.6 gle Estimation Algorithm under Low-	

	University
Jingping Shi	Northwestern Polytechnical
	University
GengNong Li	Northwestern Polytechnical
	University
Kang Qyu	Northwestern Polytechnical
	University
Ruoyi Jiao	Northwestern Polytechnical
	University
16:38:16:46	SatB6.7
1564 A deep stall recovery control based on the proximal policy	
optimization	
Xinlong Xu	Northwestern Polytechnical
	University

Ruichen Ming	Northwestern Polytechnical
	University
Xiaoxiong Liu	Northwestern Polytechnical
	University
16:46:16:54	SatB6.8

1220 Sensitivity-Guided Multi-Stage Sequential Quadratic

363 Research on the Design of Maneuver Library and Control

on-making	Wenzhe Zhang	Beijing Institute of Technology
Northwestern Polytechnical	17:26:17:34	SatB6.13
University	102 Optimal Deploymer	nt in Pursuit-evasion Game based on
Northwestern Polytechnical	Apollonius Circle for Muli	ti-UAV System
University	Xinning Wu	National University of Defense
AVIC Shenyang Aircraft Design		Technology
and Research Institute	Huangchao Yu	National University of Defense
AVIC Shenyang Aircraft Design		Technology
and Research Institute	Xiangke Wang	National University of Defense
AVIC Shenyang Aircraft Design		Technology
and Research Institute	Yongbin Zheng	National University of Defense
AVIC Shenyang Aircraft Design		Technology
and Research Institute	17:34:17:42	SatB6.14

371 Multi-target Penetration Path Planning for UAV Swarms Based on Time Synchronization Constraints

Jiusong Feng	Northwestern Polytechnical
	University
Liyuan Fan	Northwestern Polytechnical
	University
Jinwen Hu	Northwestern Polytechnical
	University
Zhao Xu	Northwestern Polytechnical
	University
Junwei Han	Northwestern Polytechnical
	University
17:42:17:50	SatB6.15

1676 Modeling and Control of High Angle of Attack Maneuvering Flight for Fixed-Wing UAVs with Consideration of Hysteresis Effects

Yufan Peng	National University of Defense
	Technology
Huangchao Yu	National University of Defense
	Technology
Su Cao	National University of Defense
	Technology

SatB7 3rd Floor Meeting Room 312 三层会议室 312 **Fusion GNC** Chairs: Maosong Wang National Univ.of Defense Technology National Univ.of Defense Technology Jun Mao 15:50:15:58 SatB7.1 139 A New Integrated Navigation Algorithm Framework Based on LG-EKF for Underwater Vehicles Wenguo Yang National University of Defense Technology National University of Defense Maosong Wang Technology National University of Defense Wenqi Wu Technology Jiarui Cui National University of Defense

 15:58:16:06
 SatB7.2

 1324 Observability analysis on DVL and range assisted AUV navigation in presence of unknown current and range drift on cloud model and AHP

Technology

	VIC Shenyang Aircraft Design
	and Research Institute
Jinwei Zhao A	VIC Shenyang Aircraft Design
	and Research Institute
Haitong Zhou A	VIC Shenyang Aircraft Design
	and Research Institute
16:54:17:02	SatB6.9
585 Direct lift Carrier landing contro	ol based on adaptive nonlinear
dynamic inversion for carrier-base	d aircraft
Tongwen Chen	Northwestern Polytechnical
	University
Xiaoxiong Liu	Northwestern Polytechnical
	University
Kecheng Li	Northwestern Polytechnical
	University
Jiaxin Chen	Northwestern Polytechnical
	University
17:02-17:10	SatB6.10
674 Wing-Damaged Aircraft Fault-	Tolerant Control Laws Design
Based on ADRC	-
Kecheng Li	Northwestern Polytechnical
-	University
Yuewen Wang	Northwestern Polytechnical
U U	University
Tongwen Chen	Northwestern Polytechnical
5	University
Shan Huang	Northwestern Polytechnical
5	University
Xiaoxiong Liu	Northwestern Polvtechnical
5	University
17:10:17:18	SatB6.11
1662 Study on the multi-source va	riable resolution data fusion of
seabed terrain in typical area of A	rctic ocean
Xun Gong	CSSC Marine Technology
	Company
Wang Qingzhe	CSSC Marine Technology
5 - 5	Company
Chong Zhang	Capital Normal University
jj	CSSC Marine Technology
Houvu Zhou	eeee manne reennelegy
Houyu Zhou	Company
Houyu Zhou Wei An	Company
Houyu Zhou Wei An	Company CSSC Marine Technology Company
Houyu Zhou Wei An 	Company CSSC Marine Technology Company SatB6 12
Houyu Zhou Wei An 17:18:17:26	Company CSSC Marine Technology Company SatB6.12
Houyu Zhou Wei An 17:18:17:26 1587 A Gravity-Aided Navigation Algorithm Based on Triangulation	Company CSSC Marine Technology Company SatB6.12 on Matching Area Selection

Algorithm for Air Combat Decision-making

GengNong Li

Yongxi Lyu

Dapeng Yang

Zhihong Deng

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Beijing Institute of Technology

Jiarui Cui	National Univercity of Defense
	Tecnology
Maosong Wang	National Univercity of Defense
	Tecnology
Wenqi Wu	National Univercity of Defense
	Tecnology
Xianfei Pan	National Univercity of Defense
	Tecnology
16:06:16:14	SatB7.3
1449 An Improved EKF-based	d Localization Method for Un-
derwater Single Beacon	
Shian Sun	Hohai University
Haoqian Huang	Honai University
Di wang	Hohai University
10:14:10:22	Salb7.4
1400 A Sequential Saye-Husa	Adaptive Filler for Cooperative
Zhang Han	Harbin Engineering University
liangiang Zhang	School of intelligent science and
Stanglang Zhang	Engineering
Chao Xue	Harbin Engineering University
Fenachi Zhu	Harbin Engineering University
Yulong Huang	Harbin Engineering University
16:22-16:30	SatB7.5
413 A Hybrid Cooperative Nav	igation Method for UAV Swarm
based on Range Optimizatio	on and State Transformation
Extended Kalman Filter	
Extended Kalman Filter Xincan Luo	National University of Defense
Extended Kalman Filter Xincan Luo	National University of Defense Technology
Extended Kalman Filter Xincan Luo Maosong Wang	National University of Defense Technology National Univercity of Defense
Extended Kalman Filter Xincan Luo Maosong Wang	National University of Defense Technology National Univercity of Defense Tecnology
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo 16:38:16:46 907 An Understare SINS/DV/	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University Wuhan University SatB7.7
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo 16:38:16:46 997 An Underwater SINS/DVL Considering Unknow and Const	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University SatB7.7 Integrated Navigation Method
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo 16:38:16:46 997 An Underwater SINS/DVL Considering Unknow and Consta	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University SatB7.7 Integrated Navigation Method ant Ocean Current Velocity National University of Defense
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo 16:38:16:46 997 An Underwater SINS/DVL Considering Unknow and Consta Yunyun Xie	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University SatB7.7 Integrated Navigation Method ant Ocean Current Velocity National University of Defense Technology
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo 16:38:16:46 997 An Underwater SINS/DVL Considering Unknow and Consta Yunyun Xie Zhiming Xiong	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University Wuhan University SatB7.7 Integrated Navigation Method ant Ocean Current Velocity National University of Defense Technology National University of Defense
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo 16:38:16:46 997 An Underwater SINS/DVL Considering Unknow and Consta Yunyun Xie Zhiming Xiong	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University University Wuhan University SatB7.7 Integrated Navigation Method ant Ocean Current Velocity National University of Defense Technology National University of Defense
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo 16:38:16:46 997 An Underwater SINS/DVL Considering Unknow and Consta Yunyun Xie Zhiming Xiong Juliang Cao	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University SatB7.7 Integrated Navigation Method ant Ocean Current Velocity National University of Defense Technology National University of Defense Technology
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo 16:38:16:46 997 An Underwater SINS/DVL Considering Unknow and Consta Yunyun Xie Zhiming Xiong Juliang Cao	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University SatB7.7 Integrated Navigation Method ant Ocean Current Velocity National University of Defense Technology National University of Defense Technology National University of Defense Technology
Extended Kalman Filter Xincan Luo Maosong Wang Wenqi Wu Jiarui Cui 16:30-16:38 913 Leg odometry assisted G system for the quadruped robot Yarong Luo Yichao Chen Anbo Tao Chi Guo 16:38:16:46 997 An Underwater SINS/DVL Considering Unknow and Consta Yunyun Xie Zhiming Xiong Juliang Cao Shaokun Cai	National University of Defense Technology National Univercity of Defense Tecnology National Univercity of Defense Tecnology National Univercity of Defense Tecnology SatB7.6 NSS/INS integrated navigation Wuhan University Wuhan University Wuhan University Wuhan University SatB7.7 Integrated Navigation Method ant Ocean Current Velocity National University of Defense Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology

Kaixin Luo	National University of Defense
	Technology
16:46:16:54	SatB7.8
1303 A Novel Underwat	ter PSO-SVR Calibration Method for
SINS/DVL	
Haoqian Huang	Hohai university
Rong Qiu	Hohai university
Aoqi Lv	Hohai university
Mengdie Zhang	Hohai university
16:54:17:02	SatB7.9
1313 A residual-based st	ate transformation sequential adaptive
ilter for dynamic attitude	measurement
Yuanxin Gu	National University of Defense
	Technology
Wenqi Wu	National University of Defense
	Technology
Chenchen Liu	China Academy of Launch Vehicle
	Technology
Chang Longkang	National University of Defense
	Technology
Maosong Wang	National University of Defense
	Technology
17:02-17:10	SatB7.10
500 Convolutional Neur	al Network Model Compression for
Gearbox Fault Diagnosis	Based on Knowledge Distillation
Zonghan Han	Beihang University
Zhisheng Cao	The System Design Institute of
	Mechanical-Electrical Engineering
Xinyu Zou	Beihang University
Xue Liu	Beihang University
Jian Ma	Beihang University
17:10:17:18	SatB7.11
1425 Optimization Strate	gies for Maintenance Schemes Based
on Large Language Mode	els and Prompt Engineering
Laifa Tao	Beihang University
Qi xuan Huang	Beihang University
Dong Qian	The Tenth Research Institute of
	China Electronics Technology
	Group Gorporation
Jia Wen	The Tenth Research Institute of
	China Electronics Technology
	Group Gorporation
Chengcheng Wang	Instrumentation Technology and
	Economy Institute
Weiwei Zhang	Beihang University
Bin Li	Beihang University
Yunlong Wu	Beihang University
17:18:17:26	SatB7.12
1660 Fault diagnosis w	ith imbalanced data:a stable sample
generation approach base	ed on CWGAN-GP model
Tong Zhang	China State Ship-Building
	Corporation Limited
Tong Zhang	China State Ship-Building
	Corporation Limited

Yuanxing Huang	China State Ship-Building
	Corporation Limited
Xianqun Mao	China State Ship-Building
	Corporation Limited
17:26:17:34	SatB7.13
1261 Remaining Useful	Life Prediction Method Based on
Performance Trajectory Sir	nilarity and Transfer Fusion
An Zhou	Beihang University
Yujie Cheng	Beihang University
Dong Qian	The Tenth Research Institute of
	China Electronics Technology
	Group Gorporation
Chengcheng Wang	Instrumentation Technology and
	Economy Institute
.lia Wen	The Tenth Research Institute of
	China Electronics Technology
	Group Gorporation
Laifa Tao	Beihang University
	Demang Oniversity
17:34:17:42	SatB7.14
1319 Hybrid Transfer Lea	rning for Fault Diagnosis of Plunger
Pumps Based on Features	and Models
Chengen Wang	Beihang University
Minghui Zhang	Beihang University
Yiting Zhou	Beihang University
Junjie Huang	Beihang University
Jian Ma	Beihang University
17:42:17:50	SatB7.15
17:42:17:50 889 500KV Transmission 7	SatB7.15 ower Drone Inspection Path Planning
17:42:17:50 889 500KV Transmission 7 Approach Based on Honey	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm
17:42:17:50 889 500KV Transmission 7 Approach Based on Honey Ning He	SatB7.15 ower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Eloor Meeting Boom 313
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 二层会议室 313
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 pical RNP Programs Commercial Aircraft Corporation of
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen	SatB7.15 Fower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 <i>spical RNP Programs</i> Commercial Aircraft Corporation of China
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 rpical RNP Programs Commercial Aircraft Corporation of China Commercial Aircraft Corporation of
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 pical RNP Programs Commercial Aircraft Corporation of China Commercial Aircraft Corporation of
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao Huiwen Yu	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 <i>pical RNP Programs</i> Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao Huiwen Yu	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 <i>rpical RNP Programs</i> Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao Huiwen Yu Zhan Zhang	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology National Univ.of Defense Technology CatB8.1 <i>pical RNP Programs</i> Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao Huiwen Yu Zhan Zhang	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 <i>rpical RNP Programs</i> Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao Huiwen Yu Zhan Zhang 15:58:16:06	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 <i>pical RNP Programs</i> Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao Huiwen Yu Zhan Zhang 15:58:16:06 1334 Research on Trajector	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 <i>rpical RNP Programs</i> Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao Huiwen Yu Zhan Zhang 15:58:16:06 1334 Research on Trajector for TBO	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 rpical RNP Programs Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China
17:42:17:50 889 500KV Transmission T Approach Based on Honey Ning He Tian Xie Qiyue Xie Wenbin Wang SatB8 Robust GNC Chairs: Guang He Shulong Zhao 15:50:15:58 1189 Testing Method for Ty Jia Chen Yijia Gao Huiwen Yu Zhan Zhang 15:58:16:06 1334 Research on Trajector for TBO Pengpeng Guo	SatB7.15 Tower Drone Inspection Path Planning Badger Optimization Algorithm CHN Energy CHN Energy Changsha University of Science and Technology CHN Energy 3rd Floor Meeting Room 313 三层会议室 313 National Univ.of Defense Technology National Univ.of Defense Technology National Univ.of Defense Technology SatB8.1 <i>rpical RNP Programs</i> Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China

Shihong Li	Tsinghua University
Kan Yang	Tsinghua University
Qing Li	Tsinghua University
16:06:16:14	SatB8.3
648 Research on flight cont	rol of TRUAVs based on adaptive
dynamic programming	
Linxiao Zhang	National University of Defense
	Technology
Guang He	National University of Defense
	Technology
Zhiqiang Long	National University of Defense
	Technology
Shuncai Rao	National University of Defense
	Technology
16:14:16:22	SatB8.4
749 Research on model par	rameter identification of ro-torcraft
based on BP neural network	
PengCheng Dong	Beijing Aerospace Automatic
	Control Institute
Na Yao	Beijing Aerospace Automatic
	Control Institute
Kunfeng Lu	Beijing Aerospace Automatic
	Control Institute
Zhaolei Wang	Beijing Aerospace Automatic
	Control Institute
Zhe Zhang	Beijing Aerospace Automatic
	Control Institute
16:22-16:30	SatB8.5
974 Target Tracking Control of	of Underactuated Unmanned Boats
Using an Improved PPO Algo	rithm
Yuzhi Hao	Southeast University
Qingling Wang	Southeast University
Kaiyuan Shen	National University of Singapore
16:30-16:38	SatB8.6
1127 Design and Takeoff An	alysis of a Tilt-Body Aquatic VTOL
Aerial Vehicle	
Jiong Hu	Beihang university
Longfei Zhao	Beihang university
	Beihang university
Zongxia Jiao	Beihang university
	Beinang university
Jinnao Lou	Beinang university
Chunzhe Li	State Grid Jilinsheng Baicheng
40-00-40-40	
16:38:16:46	SatB8.7
1595 Label-free Multi-UAV Ta	arget Surround Collision Avoidance
Control with Bearing-only Me	Notional University of Deferre
JUN LIU	
Shulong Zhao	Iecnnology
Shulong Zhao	National University of Detense
liovi Zhong	National University of Defense
Jiayi Zileliy	
Kun Liu	National University of Defense
	rational oniversity of Detellac

	Technology		
16:46:16:54	SatB8.8		
1738 An Autonomous Positioning Method of UAV Based on			
Anchor Node Deployment Under GNSS Rejection			
Haoyu Liu	National University of Defense		
	Technology		
16:54:17:02	SatB8.9		
983 Hierarchical Traject	ory Sequential Convex Programming		
Method for UAV Based of	n Safe Flight Corridors		
Hongyu Miao	Beijing Institute of Technology		
Teng Long	Beijing Institute of Technology		
Jingliang Sun	Beijing Institute of Technology		
Junzhi Li	Beijing Institute of Technology		
Shaoqi Wang	Xi'an Modern Control Technology		
	Research Institute		
Zhenlin Zhou	Beijing Institute of Technology		
17:02-17:10	SatB8.10		
1297 基于拦截捕获区的	"多对多"能量最优目标分配方法		
Haojian Li	National University of Defense		
	Technology		
Kebo Li	National University of Defense		
	Technology		
Yangang Liang	National University of Defense		
	Technology		
17:10:17:18	SatB8.11		
293 Trajectory stabilization	on control for cable-drogue-UAV system		
subject to rapidly varying	disturbances in aerial recovery		
Zhuolin Xing	Nanjing University of Aeronautics		
	and Astronautics		
Xinru Wang	Nanjing University of Aeronautics		
lialiana F an	and Astronautics		
Jialiang Fan	Nanjing University of Aeronautics		
Zikong Su	AVIC First Aircraft Design and		
Zikaliy Su Foi Luo	AVIC First Alicial Design and		
17:10:17:26	CotP9 12		
17:10:17:20	Salbo. 12		
720 Probe-Drogue Sim	ulation Study of Autonomous Aerial		
Refueling based on Predi			
Znu Snao			
Quan Zou	Chinese Flight Test Establishment		
17:20:17:34	Salbo.13		
935 UAV Renuezvous Pa	Reiberg University		
	Beihang University		
	Beinang University		
Yanxiang vyang	Beinang University		
Mengnua Zhang	Beinang University		
17:34:17:42	SatB8.14		
414 Functional Hazard A	ssessment based on improved Cloud		
	Shanghai Airarat Dasian and		
QIUTUI LUQUAN	Shanghar Alician Design and Possarsh Institute		
lun Sima			
Juli Olilla	Research Institute		
	researer molitule		

	enanghar/ arefait beergin ar
	Research Institu
17:42:17:50	SatB8.1
44 A Method for Predic	ting Landing Distance Based on th
ctual Landing Performar	nce of an Aircraft
Haijie Zhu	Shanghai Aircraft Design a
	Research Insititu
Xiaowen Wang	Shanghai Universi
SatB9	3rd Floor Meeting Room VIP 01
Multi-agent GNC	三层会议室 VIP 01
Chairs: Yajie Ma	Nanjing Univ. of Aeronauti
	and Astronaut
Wenbo Li	Beijing Institute of Control Engineeri
15:50-15:58	SatB9.1
1653 Nonlinear Optimiz	ation Model for Heliostat Field Layou
Based on IDM-PSO (Im	proved Dynamic Multi-Swarm Particl
Swarm Optimization)	
Changsong Yao	National Univ. of Defen
	Technolo
Zhaoyang Wen	National Univ. of Defen
i	Technolo
Yingzhen Nie	National Univ. of Defen
	Technolo
Xiaolu Liu	National Univ. of Defen
	Technolo
15:58-16:06	SatB9.2
129 基于自适应抗扰观;	则器的随机时变系统故障检测
Wenli Zhang	Nanjing Tech Univ.
Anning Liu	Nanjing Tech Univ.
Jiantao Shi	Nanjing Tech Univ.
16:06-16:14	SatB9.3
996 Target Recognition	and Tracking Method for UAV Based
on Monocular Vision	
Cheng Ni	Nanjing Univ. of Aeronautics and
	Astronautics
Xunhong Lv	Nanjing Univ. of Aeronautics and
	Astronautics
Yunrui Li	Astronautics Nanjing Univ. of Aeronautics and
Yunrui Li	Astronautics Nanjing Univ. of Aeronautics and Astronautics
Yunrui Li Shiqi Liu	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and
Yunrui Li Shiqi Liu	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics
Yunrui Li Shiqi Liu Zehui Mao	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and
Yunrui Li Shiqi Liu Zehui Mao	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics
Yunrui Li Shiqi Liu Zehui Mao 16:14-16:22	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB9.4
Yunrui Li Shiqi Liu Zehui Mao 16:14-16:22 1097 Automatic Gener	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB9.4 ation of Fault Diagnostic Reports
Yunrui Li Shiqi Liu Zehui Mao 16:14-16:22 1097 Automatic Gener Satellite Parameters Ba	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB9.4 ation of Fault Diagnostic Reports sed on Telemetry Data
Yunrui Li Shiqi Liu Zehui Mao 16:14-16:22 1097 Automatic Gener Satellite Parameters Ba Meijia Pan	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB9.4 ation of Fault Diagnostic Reports sed on Telemetry Data Harbin Institute of Technology
Yunrui Li Shiqi Liu Zehui Mao 16:14-16:22 1097 Automatic Gener Satellite Parameters Ba Meijia Pan Ning Wang	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB9.4 ation of Fault Diagnostic Reports sed on Telemetry Data Harbin Institute of Technology Harbin Institute of Technology
Yunrui Li Shiqi Liu Zehui Mao 16:14-16:22 1097 Automatic Gener Satellite Parameters Ba Meijia Pan Ning Wang Ke Zhang	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB9.4 ation of Fault Diagnostic Reports sed on Telemetry Data Harbin Institute of Technology Harbin Institute of Technologys Chongqing Univ.
Yunrui Li Shiqi Liu Zehui Mao <u>16:14-16:22</u> 1097 Automatic Gener Satellite Parameters Ba Meijia Pan Ning Wang Ke Zhang Zhenhua Wang	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB9.4 Tation of Fault Diagnostic Reports sed on Telemetry Data Harbin Institute of Technologys Chongqing Univ. Harbin Institute of Technology

Based on 1D-CVSAE and Attention Mechanism System Based on 1D-CVSAE and Attention Mechanism System Based

Zhaosen Mao	Nanjing Univ. of Aeronautics and
	Astronautics
Shaojie Zhang	Nanjing Univ. of Aeronautics and
	Astronautics
Jiayi Huang	Nanjing Univ. of Aeronautics and
	Astronautics
16:30-16:38	SatB9.6
1381 切换拓扑下异构多智能	体系统自适应输出一致性
Yu Liu	Nanjing Univ. of Aeronautics and
	Astronautics
Liyan Wen	Nanjing Univ. of Aeronautics and
	Astronautics
Bin Jiang	Nanjing Univ. of Aeronautics and
	Astronautics
16:38-16:46	SatB9.7
1402 Formation Path Planni	ng for Multi-Robot Systems Based
on Dung Beetle Optimizer	
Huiliao Yang	Hohai Univ.
Bo Zhang	Hohai Univ.
Chang Xiao	Hohai Univ.
16:46-16:54	SatB9.8
219 基于动态密度引导的多核	机器人编队队形变换方法
Kai Cao	Xi'an Technological Univ.
Kang Li	Xi'an Technological Univ.
Yangguan Chen	Univ. of California. Merced
16:54-17:02	SatB9.9
530 Target Grasping of Six-	Axis Robotic Arm Based on Deep
Reinforcement Learning	
Chen Xu	Anhui Univ
Keke Yang	Anhui Univ
Jianbin Dou	Anhui Univ
Zhicheng Tang	Anhui Univ
17:02-17:10	SatB9 10
620 Multi-Source Sensors P	lug-and-Play Eault-Tolerant
Integrated Navigation Metho	nd Based on Eactor Granh
	a based on racior Graph
Vuqui Shon	Naniing Liniv of Aaronautics and
rugui Shen	Astropautics
Dip Lyu	Naniing Univ of Apropautics and
T III Lyu	Actropautics
lizbouloi	Naniing Univ of Apropautics and
JIZHOU LAI	Astropautics
Pingging Wong	Noniing Univ of Aproportion and
Bingqing wang	
luchong Du	Noniing Univ of Aproportion and
Juchang Du	
47.40 47.40	Astronautics
11.10-11.10	کالله:۲۴۵۵/۵۲ اسلینی کاریک
05 <i>3 </i>	<i>NEE型的合规和研究</i>
rijie Liu	ivanjing Univ. of Aeronautics and
Dia liana	Astronautics
Bin Jiang	wanjing Univ. of Aeronautics and
V-::- M-	Astronautics
rajie Ma	ivanjing Univ. of Aeronautics and
	Astronautics

Wenbo Li	Beijing Institute of Control
	Engineering
Chengrui Liu	Beijing Institute of Control
	Engineering
17:18-17:26	SatB9.12
666 Integral reinforcement	t learning based robust anti-
disturbance control of unn	nanned surface vehicle based on
Stackelberg game	
Dong Zhao	Anhui Univ.
Weniing Ren	Hefei Univ. of Technology
Yizhen Meng	Shanghai Institute of Aerospace
g	Control Technology
17.26-17.34	SatB9 13
1068 Autonomous Driving	Image Optimization Model Based on
CycleGAN vd	inage Optimization model based on
CycleGAN-Vu	Changeles Univ. of Science and
ruqi Ouyang	Changsha Oniv. or Science and
Junjie Yang	Changsha Univ. of Science and
	Technology
Xuan Li	Peng Cheng Laboratory
Hong Mo	Changsha Univ. of Science and
	Technology
17:34 -17: 42	SatB9.14
1680 Resilient Quadrotors	Reference Generation and Control
Design against Motor Fau	lts and Wind Disturbance
Xiaobin Zhou	Zhejiang Univ.
Miao Wang	Zhejiang Univ.
Can Cui	Zhejiang Univ.
Chao Xu	Zhejiang Univ.
15:42-15:50	SatB9.15
979 Improved PPO algorit	hm for USV path planning
Yunfeng Zhang	Zhejiang Ocean Univ.
Shuije Yang	Zheijang Ocean Univ
Juniie Jin	Zheijang Ocean Univ
Shuaicheng Li	Zhejiang Ocean Univ
Yuchen Gao	Zhejiang Ocean Univ
SatB10	3rd Eloor Meeting Boom VIP 02
	二日合议会 VID 02
United Thene	Beinang Univ.
Tiallao Zhang	and Technology
15.50 15.59	and recimology
15:50-15:58	SatB10.1
Lottering Munition Intere	ception Decision-making Technology
Based on Deep Reinforcem	
Qingxi Qi	Luoyang Institute of Electro-Optical
	Equipment of Avic
Zhirong Cai	Beihang Univ.
Xinke Sun	Beihang Univ.
Tianyi Tan	Beihang Univ.
Jiang Wu	Beihang Univ.
15:58-16:06	SatB10.2
1716 System Identification	n for Tilt-body Aircraft Based on
Simulated Data	
Ke Li	Beihang Univ.

Runyu Zhao	Beihang Univ.
Jinhao Lou	Beihang Univ.
Longfei Zhao	Beihang Univ.
Zhaoyang Zhang	State Grid Hubei Economic
	Research Institute
Zhiwei Li	State Grid Hubei Economic
	Research Institute
16:06-16:14	SatB10.3
896 Research on Missile	Cooperative Adversarial Decision
Making Based on Deep Rein	forcement Learning
Helu Yang	Beihang Univ.
Zhirong Cai	Beihang Univ.
Xinke Sun	Beihang Univ.
Jiang Wu	Beihang Univ.
Tianyi Tan	Beihang Univ.
16:14-16:22	SatB10.4
603 Roto-Translation Invaria	nt Formation of Fixed-Wing UAVs in
3D: Feasibility and Control	
Xiaodong He	Univ. of Science and
	Technology Beijing
16:22-16:30	SatB10.5
1121 基于空间周期性的阻抗	学习自适应交互控制研究
Xiaodong Zhou	Beijing Institute of Control
	Engineering
Qiang Zhang	Beijing Institute of Control
	Engineering
Rui Zhang	Beijing Institute of Control
	Engineering
16:30-16:38	SatB10.6
1098 A Symmetric Stiffness	Matrix Design for Robotic On-Orbit
Refueling Operations Control	
Rui Zhang	Beijing Institute of Control
Olong Zhong	Engineering
Qiang Zhang	
Xiaodong Zhou	Beijing Institute of Control
Xiaodong Zhou	
16:38-16:46	SatB10.7
379 A Motion Monitoring Sys	tem for Elanning Wing Rotor
Based on Digital Twin	
Yang Qiaoya	Beijing Institute of Technology
He Yuanvuan	Beijing Institute of Technology
Wang Qichen	Shanghai Electro-Mechanical
	Engineering Institute
Li ao	Beijing Institute of Technology
Yang Xuan	Beijing Institute of Technology
16:46-16:54	SatB10.8
1209 An Adaptive Dual-Loop	Cascade Robust Control for
Miniature Helicopters with Ur	nknown Disturbance
Ming Liu	Beijing Institute of Technology
Jian Zhang	Northwest Industries Group
	•
	Company Ltd.

Yichen Cheng	Beijing Institute of Technology
Bailin Chen	Beijing Institute of Technology
16:54-17:02	SatB10.9
1146 Trajectory Optimization for	or Aircraft Evasive Maneuver agains
a Missile by Convex Optimizat	tion
Guangwei Wang	Beijing Institute of Technology
Xinfu Liu	Beijing Institute of Technology
Rungiu Yang	Beijing Institute of Technology
17:02-17:10	
800 近红外遥感真实世界图像。	超分辨率方法
Qingvuan Yan	Beijing Institute of Technology
Xiangyuan Zeng	Beijing Institute of Technology
17:10-17:18	
882 序列谣咸影像白话应快速	
Ranlong Xia	Beijing Institute of Technology
Shuvi Shao	Beijing Institute of Technology
17:19 17:26	SotP10.12
722 上化融入的文信限知益 #	341010.12
123 点线融合的 C11 奋化见-顶	"注纽宣寺观力法
Xinyu Yang	Beijing Institute of Technology
Alangyuan Zeng	Beijing Institute of Technology
17:26-17:34	SatB10.13
1024 Multi-Delay Mitigation N	Iodel Predictive Control Framework
for Multirotor UAV Wireles	s Avionics Intra-Communication
Systems	
Jipeng Han	Beijing Institute of Technology
Yankai Wang	Beijing Institute of Technology
17:34-17:42	SatB10.14
1300 Research on dual	three-phase permanent magne
synchronous motor based on o	dual-speed closed loop
Siyuan Wang	Beijing Institute of Technology
Ning Dong	Beijing Institute of Technology
Hengzai Hu	Beijing Institute of Technology
17:42-17:50	SatB10.15
1607 Laser Guided Projectil	le: From Damp Control to ADRO
Autopilot	
Yuanyue Lei	Beijing Institute of Technology
Hui Wang	Beijing Institute of Technology
Luyao Zang	Beijing System Design Institute of
	Electro-Mechanic Engineering
Shitong Jiang	The 50th Research Institute of
	China Electronics Technology
	Group Corporation
Wugang Wang	Northwest Industries Group
	Co.LTD
SatB11	3rd Floor Aisle
Poster Session 2	三层廊厅
Chairs: Haoqi Zhengli	Beihang Univ.
Yimin Deng	Beihang Univ.
15:50-17:50	SatB11.1
501 Optimization Control of W	/ide-Speed-Range Aircraft's Climb
Trajectory with Integrated Flic	ht/Propulsion Based on Adopted
Pigeon-Inspired Optimization	
- , ,	

Cheng Liao	Beihang Univ.
Yimin Deng	Beihang Univ.

Academy of Machinery Equipment

Haibin Duan	Beihang Univ.
15:50-17:50	SatB11.2
503 一种用于景象匹配导航。	的新型图像配准算法
Hongrui Yang	Xi'an Modern Control Technology
	Research Institute
Qiju Zhu	Xi'an Modern Control Technology
	Research Institute
Peixian Cao	Xi'an Modern Control Technology
	Research Institute
Hao Gu	Institute of Automation, CAS
Dongdong Zhao	AVIC Xi'AN Flight Automatic
-	Control Research Institute
15:50-17:50	SatB11.3
504 航空电子设备的单粒	子效应综合防护设计
GangWei Hui	AVIC First Aircraft Design and
	Research Institute
PanFeng Yan	AVIC First Aircraft Design and
	Research Institute
TongWei Qu	AVIC Xi'AN Flight Automatic
	Control Research Institute
15:50-17:50	SatB11.4
507 UAV Decision-making	g Method based on Assessment
Rong Ma	National Key Laboratory of
	Science and Technology on
	Integrated Technology Control
Zhangjun Sun	AVIC Xi'AN Flight Automatic
	Control Research Institute
Ning Zhang	National Key Laboratory of
	Science and Technology on
	Integrated Technology Control
15:50-17:50	SatB11.5
508 Collaborative Rec	onnaissance Mission Planning
Considering Task Overlap a	nd Obstacle Avoidance
Cancan Tao	Beihang Univ.
Li Zha	Beihang Univ.
Wanqiang She	HiWing General Aviation Equipment
	Co.,Ltd.
Qinghua Hou	Northeastern Univ.
Bowen Liu	Beihang Univ.
Jun Ye	Beihang Univ.
15:50-17:50	SatB11.6
513 Lesion-Focused Ultr	asound Images Super-resolution
Reconstruction based on Co	parse-to-Fine Diffusion Model
Zhenzhuo Wang	Anhui Univ.
Zhenyi Xu	Univ. of Science and Technology of
	China
Yu Kang	Hefei Comprehensive National
	Science Center
Kehao Shi	Univ. of Science and Technology of
	China
Xianjun Ye	Univ. of Science and Technology of
	China
15:50-17:50	SatB11.7

	rception Scenarios
Bingchen Cai	Beijing Institute of Astronautica
	Systems Engineering
Naimin Zhang	Beijing Institute of Astronautica
	Systems Engineering
Han Yu	Beijing Institute of Astronautica
	Systems Engineering
15:50-17:50	SatB11.8
518 A Vision-Based Robus	t Real-Time Method for 3D Localization
of Power Line	
Chen Dong	Harbin Institute of Technolog
Zhan Li	Harbin Institute of Technolog
Jiayu Liu	National Key Laboratory o
	Complex System Control and
	Intelligent Agent Cooperation
15:50-17:50	SatB11.9
519 A Key Part Identificatio	on Algorithm of Ship based on Improv
Yolov5	
Siting Peng	The Beijing Electro-Mechanica
	Engineering Institute
Jun Ren	The Beijing Electro-Mechanica
	Engineering Institute
Lei Li	The Beijing Electro-Mechanica
	Engineering Institute
Jie Liang	National Key Laboratory o
	Complex System Control and
	Intelligent Agent Cooperation
15:50-17:50	SatB11.10
520 Intelligent cooperative	guidance for multiple hypersonic
vehicles with sudden threat	t i i i i i i i i i i i i i i i i i i i
Jie Ren	Beihang Univ
Jianglong Yu	Beihang Univ
Xiwang Dong	Beihang Univ
Zhang Ren	Beihang Univ
15:50-17:50	SatB11.1
521 Multi Hood Attention I	
521 Mulli-Head Allention-L	STM-Based Aerial Target Trajectory
Prediction under Abnormal	STM-Based Aerial Target Trajectory Detection Information
Prediction under Abnormal	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics
Prediction under Abnormal Xizhong Yang	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionic: Integration and Aviation System-o
Prediction under Abnormal Xizhong Yang	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis
Prediction under Abnormal Xizhong Yang	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Naniing Univ. of Aeronautics and
Prediction under Abnormal Xizhong Yang Tongle Zhou	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics
Prediction under Abnormal Xizhong Yang Tongle Zhou	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics
Prediction under Abnormal Xizhong Yang Tongle Zhou 15:50-17:50	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionic: Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautic: SatB11.12
Prediction under Abnormal Xizhong Yang Tongle Zhou 15:50-17:50	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics SatB11.12 pace Objects based on Contour Featu
Prediction under Abnormal Xizhong Yang Tongle Zhou 15:50-17:50 522 Pose Estimation for Sp Matching	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics SatB11.12 pace Objects based on Contour Featu
21 Multi-Head Attention-L Prediction under Abnormal Xizhong Yang Tongle Zhou 15:50-17:50 522 Pose Estimation for Sp Matching Xin Zhang	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics SatB11.12 pace Objects based on Contour Featu Harbin Hafei Aviation Industry Co
Prediction under Abnormal Xizhong Yang Tongle Zhou 15:50-17:50 522 Pose Estimation for Sp Matching Xin Zhang	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics SatB11.12 pace Objects based on Contour Featu Harbin Hafei Aviation Industry Co.
21 Multi-Head Attention-L Prediction under Abnormal Xizhong Yang Tongle Zhou 15:50-17:50 522 Pose Estimation for Sp Matching Xin Zhang Qingwen Yun	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics SatB11.12 Dace Objects based on Contour Featu Harbin Hafei Aviation Industry Co. Lto Harbin Hafei Aviation Industry Co.
Prediction under Abnormal Xizhong Yang Tongle Zhou 15:50-17:50 522 Pose Estimation for Sp Matching Xin Zhang Qingwen Yun	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics SatB11.12 Dace Objects based on Contour Featu Harbin Hafei Aviation Industry Co. Lto Harbin Hafei Aviation Industry Co.
Prediction under Abnormal Xizhong Yang Tongle Zhou <u>15:50-17:50</u> 522 Pose Estimation for Sp Matching Xin Zhang Qingwen Yun	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics SatB11.12 Dace Objects based on Contour Featu Harbin Hafei Aviation Industry Co. Lto Harbin Hafei Aviation Industry Co.
Prediction under Abnormal Xizhong Yang Tongle Zhou <u>15:50-17:50</u> 522 Pose Estimation for Sp Matching Xin Zhang Qingwen Yun Jun Xiong	STM-Based Aerial Target Trajectory Detection Information State Key Laboratory of Avionics Integration and Aviation System-o Systems Synthesis Nanjing Univ. of Aeronautics and Astronautics SatB11.12 Pace Objects based on Contour Featur Harbin Hafei Aviation Industry Co. Lto Harbin Hafei Aviation Industry Co.

517 Self-Attention Mechanism Based Reinforcement Learning

527 Unmanned Aerial V	ehicle Formation and Obstacle Avoidance
Based on Birds Flocking	g and Anti-predation Behavior
Tianjie Zhang	Beijing Aerospace Automatic
	Control Institute
Zhenpo Tian	Beijing Aerospace Automatic
	Control Institute
Yuecheng Liu	Beijing Aerospace Automatic
	Control Institute
15:50-17:50	SatB11.14
533 Fuzzy fault-tolerant	control for aircraft systems with
unmeasurable premise	variables
Jing-Jing Yan	AVIC Shenyang Aircraft
	Corporation
Zhuo Jiang	AVIC Shenyang Aircraft Design and
	Research Institute
Yan Guo	No. 1 Military Representative Office
	of Equipment Department of PLA
	Air Force in Shenyang
Xin Pan	AVIC Shenyang Aircraft Corporation
BenGang Liu	AVIC Shenyang Aircraft Corporation
Ū	
15:50-17:50	
534 Multi-LIAV Coopera	ative Encirclement Strategy in Complex
-	
Environments	
Jian Gu	Nanjing Univ. of Aeronautics and
	Astronautics
Yin Wang	Naniing Univ of Aeronautics and
	Astronautics
15:50-17:50	SatB11.16
535 Parameter Identifi	cation and Synchronization Control of
Network System Model	ed by Heat Equations
Fagin Zhao	Univ. of Jinan
Xiiu Zona	Univ. of Jinan
15:50-17:50	SatB11.17
540 船舶模型自动加权	偏最小二乘参数辨识方法
Fangrui Fan	Harbin Engineering Univ.
	Harbin Engineering Univ.
15:50-17:50	SatB11.18
543 Constructing Barrie	r Surface in Target-Attacker-Defender
Game with Non-Zero Ca	apture Radius for the Attacker
Yibo Shi	Univ. of Shanghai for Science and
01 1111	Technology
Chaoli Wang	Univ. of Shanghai for Science and
	Technology
Qinglin Wu	Univ. of Shanghai for Science and
	Technology
15:50-17:50	SatB11.19
548 Design and Opti	mization of an Electromechanical $\Sigma\Delta$
Closed-loop for MEMS	Gyroscopes Using MOPSO Algorithm
Yuzhe Zhang	AVIC Xi'an Flight Automatic Control

	Research Institute
Jian Wang	AVIC Xi'an Flight Automatic Control
	Research Institute
Wenhong Li	AVIC Xi'an Flight Automatic Control
	Research Institute
Yazhou Yue	AVIC Xi'an Flight Automatic Control
	Research Institute
15:50-17:50	SatB11.20
550 基于改进A*搜索算	尊法的无人机路径规划
Zhuoyi Fan	Univ. of Science and Technology Beijing
Junjie Liu	Univ. of Science and Technology Beijing
Yao Zou	Univ. of Science and Technology Beijing
Wei He	Univ. of Science and Technology Beijing
15:50-17:50	SatB11.21
551 基于 IMM-KF 的角	加速度估计方法
Honafen Chen	AVIC Xi'AN Flight Automatic Control
	Research Institute
Zhi Li	AVIC Xi'AN Flight Automatic Control
	Research Institute
15:50-17:50	SatB11.22
553 Dual Attention Med	chanism for Multi-scale Low-altitude UAV
Detection	
Ruiyao Huang	Northwestern Polytechnical Univ
Kaiyue Zhang	Northwestern Polytechnical Univ
Wenkai Shen	Northwestern Polytechnical Univ
Kang Liu	Northwestern Polytechnical Univ
15:50-17:50	SatB11.23
554 An improved Smith	n scheme for throttle servo control system
with mismatched time-	delay parameters
Tiefu Zhu	AVIC Shenyang Aircraft Design and
	Research Institute
Di Wu	AVIC Shenyang Aircraft Design and
	Research Institute
Vitan Oi	
riian Qi	AVIC Shenyang Aircran Design and
	Research Institute
Yunqi Na	AVIC Shenyang Aircraft Design and
	Research Institute
15:50-17:50	SatB11.24
557 Cloud Manufactur	ring Tasks Decomposition Based on the
Preliminary Screening	of Resource Candidate Sets
Wang Ting	Nanjing Univ. of Aeronautics and
	, .
	Astronautics
Ziguan Yu	Astronautics
Ziquan Yu	Astronautics Nanjing Univ. of Aeronautics and Astronautics
Ziquan Yu Junije Zhu	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and
Ziquan Yu Junjie Zhu	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics
Ziquan Yu Junjie Zhu	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics
Ziquan Yu Junjie Zhu Youmin Zhang	Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Industrial and Aerospace

Bin Jiang	Nanjing Univ. of Aeronautics and
	Astronautics
15:50-17:50	SatB11.25
563 Physics-Informed	Neural ODE for Nonlinear Time-Varying
Aircraft Dynamics Mode	eling
Jinyi Ma	Fudan Univ.
Jianliang Ai	Fudan Univ.
Yiqun Dong	Fudan Univ.
15:50-17:50	SatB11.26
565 Vertical Crossing T	racking Control of Water-Air Amphibious
Buoys on Wave Surface	es
Yang Ling	Zhejiang Univ.
Lu Mingqing	China Aerodynamics Research and
	Development Center
Liao Fei	China Aerodynamics Research and
	Development Center
Shao Zhijiang	Zhejiang Univ.
15:50-17:50	
572 Multiple Spacecra	ft Trajectory Optimization Control Based
on Gaussian Pseudo-S	pectral Method
Ruifeng Zhou	Naniing Univ of Aeronautics and
	Astronautics
Ziquan Yu	Nanjing Univ.of Aeronautics and
	Astronautics
Lingxia Mu	Xi'an Univ. of Technology
Youmin Zhang	Concordia Univ.
15:50-17:50	SatB11.28
574 Course Developme	ent of Guidance, Navigation and Control
at Tsinghua Univ.	
Qing Li	Tsinghua Univ.
15:50-17:50	SatB11.29
575 A fast trajectory pla	anning method for multi-UAVs based on
SCP with modified trust	region
Xiao Li	Xi'an Univ. of Technology
Lingxia Mu	Xi'an Univ. of Technology
Youmin Zhang	Concordia Univ.
Ban Wang	Northwestern Polytechnical Univ.
Yulong Zhang	Xi'an Univ. of Technology
Xianghong Xue	Xi'an Univ. of Technology
15:50-17:50	SatB11.30
576 Research on an a	daptive ice tolerance control method for
aircraft	
Feihong Jiang	Northwestern Polytechnical Univ.
Kecheng Li	Northwestern Polytechnical Univ.
Tongwen Chen	Northwestern Polytechnical Univ.
Xiaoxiong Liu	Northwestern Polytechnical Univ.
15:50-17:50	SatB11.31
579 Flow Regime	Particle Swarm Ontimization (FP-

579 Flow Regime-Particle Swarm Optimization (FR-
 579
 Flow
 Regime-Particle
 Swarm
 Opurnization
 Opur 104

SourceLocalization	
Rongxue Yi	Beijing Institute of Technology
Shuai Wang	Beijing Tongfang Zhike Technology
Xiang Guo	China Certification & Inspection
	Group Beijing Co. Ltd
Bo Wang	Beijing Institute of Technology
15:50-17:50	SatB11.32
582 Fault detection and	d isolation of a prototype helicopter without
angular velocity measu	urements
Xianghua Wang	Beijing Univ. of Posts and
	Telecommunications
Yi Tian	State Key Laboratory of High-speed
	Maglev Transportation Technology
Ziye Zhang	Shandong Univ. of Science and
	Technology
15:50-17:50	SatB11.33
583 Earth Observation	Satellite Scheduling based on Actor-Critic
Algorithm	
Chao Chen	Space Engineering Univ.
ZhiTao Wang	Space Engineering Univ.
Nuan Wang	Space Engineering Univ.
Rong He	Space Engineering Univ.
Dexian Zeng	Space Engineering Univ.
15:50-17:50	SatB11.34
586 一种基于固定翼飞	的机心航阶段的自主导航算法
Yiyu Liu	Univ. of Electronic Science and
	technology
Ma Bo	Tsinghua Univ.
15:50-17:50	SatB11.35
588 Research on Cont	trol Assignment Method of TiltrotorVehicle
Ning Zhong	National Koy Laboratory of Science
Ning Zhàng	and Technology on Integrated
	National Key Laboratory of Science
	and Technology on Integrated
Xianglun Zhang	National Key Laboratory of Science
Alangian Zhang	and Technology on Integrated
	Technology Control
15:50-17:50	
593 基于非高斯李群源	核波的捷联惯导系统运动对准方法
Haoyang Li	Beijing Univ. of Technology
Fuiun Pei	Beijing Univ. of Technology
Li Pena	Beijing Univ. of Technology
Tiantian Xu	Beijing Univ. of Technology
15:50-17:50	SatB11 37
600 Practical Predefine	ed-Time Cooperate Guidance Law Against
Maneuvering Target	
Zihao Wu	Reihang Univ
Yaoli	China Academy of Aerospace
	Science and Innovation
Qinadona Li	Reihang Univ
angaong Li	

Bin Fu	Northwestern Polytechnical
	Univ.
15:50-17:50	SatB11.38
601 Feature Point Fusion Stra	tegy Based on Visual and LIDAR
Information	
Shijie Wu	Beijing Institute of Technology
Haoyu Qi	Beijing Institute of Technology
Yuhang Zhang	Beijing Institute of Technology
Zhen Li	Beijing Institute of Technology
15:50-17:50	SatB11.39
602 Research on collaborative	planning of cluster nano
satellites for the interception of	approaching non-cooperative
target to the space station	
Yongqing Sun	Northwestern Polytechnical
	Univ.
Yani Li	Northwestern Polytechnical
	Univ.
Chong Sun	Northwestern Polytechnical
0	Univ.
Xiaozhou Yu	Dalian Univ. of Technology
Qun Fang	Northwestern Polytechnical
	Univ
15:50-17:50	SatB11 40
605 Multi-Spacecraft Mission F	Planning Based on Potential Game
Xinvue Zhang	Naniing Liniv of Aeronautics
Allyde Zhang	and Astronautics
Hao Liu	Naniing Univ. of Aeronautics
	and Astronautics
Boyuan Du	Naniing Univ. of Aeronautics
Doxuali Du	
Ziguon Vu	Noning Univ of Acronautics
Chaoying rang	
45 50 47 50	
15:50-17:50	SatB11.41
607 Multidisciplinary Modeling	Framework for Tactical Missile
Guidance and Control System	
Ao Li	Beijing Institute of Technology
Yuanyuan He	Beijing Institute of Technology
Qiaoya Yang	Beijing Institute of Technology
Xuan Yang	Beijing Institute of Technology
15:50-17:50	SatB11.42
608 A built-in test design met	hod for rate gyroscopes used in
flight control systems	
Ruiyun Zhao	Beijing Keeven Aviation
	Instrument Co., Ltd
Xinming Zhang	Beijing Keeven Aviation
	Instrument Co., Ltd
Yubei Guo	Beijing Keeven Aviation
	Instrument Co., Ltd
15:50-17:50	SatB11.43
610 Incremental Dynamic Inve	rsion Flight Control Method
Based on ESO	
Xiayi Xu	Nanjing Univ. of Aeronautics

	and Astronautic
Yitian Wang	Nanjing Univ. of Aeronautics
	and Astronautic
Yali Xue	Nanjing Univ. of Aeronautics
	and Astronautic
Yuqing Luan	Nanjing Univ. of Aeronautics
	and Astronautic
15:50-17:50	SatB11.44
613 Model Identication of	Autonomous Underwater Vehicles

Based on Transformer Yaomin Li Northeastern Univ. Shutao Wang Northeastern Univ. Junyi Wang Northeastern Univ. Chao Zheng Northeastern Univ. Genying Wang Northeastern Univ. 15:50-17:50 SatB11.45 615 Path Planning Method for Mobile Robots Based on Grid-Topological Hybrid Map in Complex Multi-floor Spaces Fudan Xu Nanjing Univ. of Aeronautics and Astronautics Jizhou Lai Nanjing Univ. of Aeronautics and Astronautics Pin Lyu Nanjing Univ. of Aeronautics and Astronautics Wei Fang Nanjing Univ. of Aeronautics and Astronautics 15:50-17:50 SatB11.46 616 Fault-Tolerant Control of Wing Surface Based on Incremental Nonlinear Dynamic Inversion Jiaxin Chen Northwestern Polytechnical Univ. Xiaoxiong Liu Northwestern Polytechnical Univ. Tongwen Chen Northwestern Polytechnical Univ. Lei Wang Northwestern Polytechnical Univ. 15:50-17:50 SatB11.47 622 Distributed Covert GNSS Spoofing of Non-cooperative UAVs Equipped with Array Antennas Zhongjie YIN Rocket Force Univ. of Engineering Bo Hou Rocket Force Univ. of Engineering Xiaolong JIN Rocket Force Univ. of Engineering Zhiliang Fan Rocket Force Univ. of Engineering

 15:50-17:50
 SatB11.48

 625
 Simulation Analysis of Satellite Orbit Determination based on EKF Method

Rocket Force Univ. of Engineering

Space Engineering Univ.

Yakun Zhang

Haiyang Wang

Zhongtao Zhang	Space Engineering Univ.
Xueshuang Shi	Space Engineering Univ.
Bin Wang	Space Engineering Univ.
Lei Kan	Aviation Univ. of Air Force
15:50-17:50	SatB11.49
627 Asteroid Observation O	rbit Design and Transfer Method
based on Analytic Solution of	f the Tschauner-Hempel Equation
Suyi Liu	Northwestern Polytechnical Univ.
Fei Cheng	Northwestern Polytechnical Univ.
Xin Ning	Northwestern Polytechnical Univ.
Xuyang Cao	Northwestern Polytechnical Univ.
Wenlong Li	Shanghai Institute of Space
	Technology
Xiaobin Lian	Northwestern Polytechnical Univ.
15:50-17:50	SatB11.50
628 Integrated Lift and Three	e-axis Stabilization Control Law for a
Morphing Wing	
Ziyang Xu	National Space Science
	Center, CAS
Peng Han	National Space Science
	Center, CAS
Dong Gao	National Space Science
	Center,CAS
Yu Feng	National Space Science
-	Center,CAS
Yu Zhang	National Space Science
Ū.	Center,CAS
15:50-17:50	SatB11.51
15:50-17:50 629 基于强化学习的无人车	SatB11.51 编队避障策略研究
15:50-17:50 629 基于强化学习的无人车。 Chenchen	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and
15:50-17:50 629 基于强化学习的无人车a Chenchen Shang	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics
15:50-17:50 629 基于强化学习的无人车; Chenchen Shang Yin Wang	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and
15:50-17:50 629 基于强化学习的无人车。 Chenchen Shang Yin Wang	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics
15:50-17:50 629 基于强化学习的无人车a Chenchen Shang Yin Wang Shengtan Dai	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and
15:50-17:50 629 基于强化学习的无人车a Chenchen Shang Yin Wang Shengtan Dai	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics
15:50-17:50 629 基于强化学习的无人车a Chenchen Shang Yin Wang Shengtan Dai 15:50-17:50	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB11.52
15:50-17:50 629 基于强化学习的无人车a Chenchen Shang Yin Wang Shengtan Dai 15:50-17:50 630 Air alignment method fo	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB11.52 rr attitude angle of rolling projectiles
15:50-17:50 629 基于强化学习的无人车a Chenchen Shang Yin Wang Shengtan Dai 15:50-17:50 630 Air alignment method fo with speed matching and method	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics satB11.52 rr attitude angle of rolling projectiles aneuver assistance
15:50-17:50 629 基于强化学习的无人车a Chenchen Shang Yin Wang Shengtan Dai <u>15:50-17:50</u> 630 Air alignment method for with speed matching and ma Lijun Xie	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics satB11.52 or attitude angle of rolling projectiles aneuver assistance CH UAV Science & Technology
15:50-17:50 629 基于强化学习的无人车a Chenchen Shang Yin Wang Shengtan Dai 15:50-17:50 630 Air alignment method fo with speed matching and method for with Speed matching	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB11.52 or attitude angle of rolling projectiles aneuver assistance CH UAV Science & Technology Co.,Ltd
15:50-17:50 629 基于强化学习的无人车部 Chenchen Shang Yin Wang Shengtan Dai <u>15:50-17:50</u> 630 Air alignment method for with speed matching and mat	SatB11.51 编队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB11.52 r attitude angle of rolling projectiles aneuver assistance CH UAV Science & Technology Co.,Ltd CH UAV Science & Technology
15:50-17:50 629 基于强化学习的无人车a Chenchen Shang Yin Wang Shengtan Dai 15:50-17:50 630 Air alignment method fo with speed matching and method Lijun Xie Bo Peng	SatB11.51 編队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB11.52 r attitude angle of rolling projectiles aneuver assistance CH UAV Science & Technology Co.,Ltd
15:50-17:50 629 基于强化学习的无人车部 Chenchen Shang Yin Wang Shengtan Dai 15:50-17:50 630 Air alignment method for with speed matching and method for method for With speed matching and method for With spe	SatB11.51 編队避障策略研究 Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics Nanjing Univ. of Aeronautics and Astronautics SatB11.52 or attitude angle of rolling projectiles aneuver assistance CH UAV Science & Technology Co.,Ltd CH UAV Science & Technology Co.,Ltd
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Zhiming Chen	Nanjing Univ. of Aeronautics and
	Astronautics
15:50-17:50	SatB11.54
632 Angle-Only Estimation	Method for Spatial Non-Cooperative
Target Based on System Ol	bservable Degree
Long Wang	Shandong Univ. of Aeronautics
Shifa Wang	Shandong Univ. of Aeronautics
Tong Mei	Shandong Univ. of Aeronautics
Jialei Li	Shandong Univ. of Aeronautics
Wei Hao	Shandong Univ. of Aeronautics
Mingming Zhao	Shandong Univ. of Aeronautics
15:50-17:50	SatB11.55
633 Time-to-Go Weighted C	Optimal Guidance with Predictor-
corrector Compensation for	a Vertical Landing Rocket
Chuan Xia	Beijing Institute of Astronautical
	Systems Engineering
Yu Hu	Beijing Institute of Astronautical
	Systems Engineering
Bo Gao	Beijing Institute of Astronautical
	Systems Engineering
Jianshuang	Beijing Institute of Astronautical
Song	Systems Engineering
Zhaorong Dong	China Academy of Launch Vehicle
	Technology
15:50-17:50	SatB11.56
634 "A New SVD-based fau	It detection and isolation algorithm
Using Fuzzy Self-Correction	n Filter"
Dongyang	Beijing Aerospace Times Laser
Zhang	Inertial Technology Company,Ltd
Xingfa Zhao	Beijing Aerospace Times Laser
	Inertial Technology Company,Ltd
Le Chang	Beijing Aerospace Times Laser
	Inertial Technology Company,Ltd
Zhendong	Beijing Aerospace Times Laser
Yang	Inertial Technology Company, Ltd
Chao Yang	Beijing Aerospace Times Laser
-	Inertial Technology Company, Ltd
15:50-17:50	SatB11.57
636 Research on Control A	Assignment Strategy for Aircraft with
Multiple Control Surfaces	
Shimin Liu	The First Aircraft Institute of
	AVIC
Letian Zhao	The First Aircraft Institute of
	AVIC
Yan Sun	The First Aircraft Institute of
	AVIC
He Yuanvuan	The First Aircraft Institute of
	AVIC
Haoli	The First Aircraft Institute of
Yidi Lei	The First Aircraft Institute of
15.50-17.20	SatB11 59
13.30-17.30	Said 11.38
637 Analysis of Auxiliary Display and Guidance Mode Based on Magic Carpet Landing Control Technology

Hang Chen	The First Aircraft Institute of AVIC
Rui Yang	The First Aircraft Institute of AVIC
Letian Zhao	The First Aircraft Institute of AVIC
Qingyun Zhu	The First Aircraft Institute of AVIC
Yangyang	The First Aircraft Institute of AVIC
Zhou	
Wei Zhang	The First Aircraft Institute Of AVIC
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15:50-17:50SatB11.59640Unmanned Ariel Vehicle (UAV) Ground Control Station(GCS) Development and Characteristics AnalysisXiaoyue WangBeijing Institute of TechnologyJunda ZhaiChina Research andDevelopment Academy ofMachinery EquipmentDawei LiuChina Research andDevelopment Academy ofMachinery EquipmentShiyao LinChina Research andDevelopment Academy ofMachinery EquipmentJiashuai SongChina Research andDevelopment Academy ofMachinery EquipmentXiang LiChina Research andDevelopment Academy ofMachinery EquipmentXiang LiChina Research andDevelopment Academy ofMachinery EquipmentTao XiongChina Research andDevelopment Academy ofMachinery Equipment15:50-17:50SatB11.60641 UAV Swarms Offensive-Defensive ConfrontationDevelopment and Characteristics AnalysisJunda ZhaiChina Research andDevelopment Academy ofMachinery EquipmentDawei LiuChina Research andDevelopment Academy ofMachinery EquipmentDawei LiuChina Research andDevelopment Academy ofMachinery EquipmentXiaoyue WangBeijing Institute of TechnologyShiyao LinChina Research andDevelopment Academy ofMachinery EquipmentXiaoyue WangBeijing Institute of TechnologyShiyao Lin	ttol Enang	
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641 UAV Swarms Offensive-Defensive Confrontation Development and Characteristics Analysis Junda Zhai China Research and Development Academy of Machinery Equipment Dawei Liu China Research and Development Academy of Machinery Equipment Chaoqun Ma China Research and Development Academy of Machinery Equipment Xiaoyue Wang Beijing Institute of Technology Shiyao Lin China Research and Development Academy of Machinery Equipment Jiashuai Song China Research and Development Academy of	15:50-17:50	SatB11.60
Development and Characteristics AnalysisJunda ZhaiChina Research and Development Academy of Machinery EquipmentDawei LiuChina Research and Development Academy of Machinery EquipmentChaoqun MaChina Research and Development Academy of Machinery EquipmentKaoyue WangBeijing Institute of Technology Shiyao LinShiyao LinChina Research and Development Academy of Machinery EquipmentJiashuai SongChina Research and Development Academy of Machinery Equipment	641 UAV Swarms Offensive	-Defensive Confrontation
Junda Zhai China Research and Development Academy of Machinery Equipment Dawei Liu China Research and Development Academy of Machinery Equipment Chaoqun Ma China Research and Development Academy of Machinery Equipment Xiaoyue Wang Beijing Institute of Technology Shiyao Lin China Research and Development Academy of Machinery Equipment Jiashuai Song China Research and Development Academy of	Development and Character	istics Analysis
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Dawei LiuChina Research and Development Academy of Machinery EquipmentChaoqun MaChina Research and Development Academy of Machinery EquipmentXiaoyue WangBeijing Institute of Technology Shiyao LinShiyao LinChina Research and Development Academy of Machinery EquipmentJiashuai SongChina Research and Development Academy of Machinery Equipment		Machinery Equipment
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Machinery EquipmentChaoqun MaChina Research and Development Academy of Machinery EquipmentXiaoyue WangBeijing Institute of TechnologyShiyao LinChina Research and Development Academy of Machinery EquipmentJiashuai SongChina Research and Development Academy of Machinery Equipment		Development Academy of
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Machinery Equipment Xiaoyue Wang Beijing Institute of Technology Shiyao Lin China Research and Development Academy of Machinery Equipment Jiashuai Song China Research and Development Academy of		Development Academy of
Xiaoyue WangBeijing Institute of TechnologyShiyao LinChina Research andDevelopment Academy of Machinery EquipmentJiashuai SongChina Research and Development Academy of		Machinery Equipment
Shiyao Lin China Research and Development Academy of Machinery Equipment Jiashuai Song China Research and Development Academy of	Xiaoyue Wang	Beijing Institute of Technology
Jiashuai Song Development Academy of Machinery Equipment China Research and Development Academy of	Shiyao Lin	China Research and
Jiashuai Song Machinery Equipment Development Academy of		Development Academy of
Jiashuai Song China Research and Development Academy of		Machinery Equipment
Development Academy of	Jiashuai Song	China Research and
		Development Academy of
Machinery Equipment		Machinery Equipment
Xiang Li China Research and	Xiang Li	China Research and

Development Academy of

	Machinery Equipment
15:50-17:50	SatB11 61
647 Turbulence Suppr	ession Control of LIAV Based on Model
Assisted Extended Sta	te Observer
YueLong Ma	AVIC Xi'AN Flight Automatic
Ū	Control Research Institute
Ning Zhang	AVIC Xi'AN Flight Automatic
·	Control Research Institute
Xiaolong Chen	AVIC Xi'AN Flight Automatic
, action ground	Control Research Institute
Henavu Liu	AVIC Xi'AN Flight Automatic
nongya Ela	Control Research Institute
Zefeng Chen	
Zeleng onen	Control Research Institute
15.50 17.50	
15.50-17.50	Salb 11.02
649 Space-based Ma	aneuvering larget lracking Algorithm
Based on IMM	
Jidong Pei	Beihang Univ.
Yandong Wang	Beihang Univ.
Sirui Deng	Beihang Univ.
Haipeng Chen	China Academy of Launch Vehicle
	Technology
15:50-17:50	SatB11.63
654 Multi-UAV Target	Tracking Method Based on Lyapunov
Navigation Vector Field	l with Heterogeneous Roles
Jiang Zhao	Beihang Univ.
Qing Li	Beihang Univ.
Pei Chi	Beihang Univ.
Lu Kelin	Southeast Univ.
Yan Ma	Beijing Institute of Control &
	Electronics Technology
Yingxun Wang	Beihang Univ.
15:50-17:50	SatB11.64
655 Evolution of Intero	perability Technology in Military Practice
Haixiao Qi	Beijing Aerospace Wanyuan
	Technology Co., Ltd.
Zhongrui Sun	Beijing Aerospace Wanyuan
	Technology Co., Ltd.
Hao Wang	Beijing Aerospace Wanyuan
	Technology Co., Ltd.
Hang Yi	Beijing Aerospace Wanyuan
J.	Technology Co., Ltd.
15:50-17:50	SatB11.65
657 基于改讲鸽群的随	机森林无人机故障预测算法
Yuanyuan Liu	Naniing Univ of Aeronautics and
	Astronautics
Rong Yuan	Naniing Univ of Aeronautics and
Shuvi Shao	Naniing Univ of Aeronautics and
Shayi Shao	Astronautics
Mou Chen	Naniing Univ of Acronautics and
	Astronautics
15.50 17.50	Astronautics
10:00-17:50	SatB11.66

658 Research on Architecture and Simulation of Reconfigurable Integrated Processing Microsystem for Micro Space Robot

	Boiliding office
Lei Chen	China Academy of Aerospace
	Electronics Technology
Yanlong Zhang	Beijing Microelectronics
	Technology Institute
Tianrui Zhu	Beijing Microelectronics
	Technology Institute
Feng Ni	Beijing Microelectronics
	Technology Institute
Nan Li	Beijing Microelectronics
	Technology Institute
Kun Xu	Beihang Univ.
Xilun Ding	Beihang Univ.
15:50-17:50	SatB11.67
659 基于强化学习的高	超声速飞行器再入制导方法
Weihao Feng	Xidian Univ.
Donazhu Fena	Xidian Univ
Pei Dai	Xidian Univ
Libua Zhang	Lunar Exploration and Space
	Engineering Center
Chenkai Zhang	Lingineering Center Xidian Liniv
	Xilan Institute of Electronic
45 50 47 50	Engineering
15:50-17:50	SatB11.68
661 Research on Dyna	mic Identification Technology of Illegal
Data in Flight Control S	Software
Qi Zhang	AVIC Shenyang Aircraft Design
	and Research Institute
Yongyi Liu	
	AVIC Shenyang Aircraft Design
	AVIC Shenyang Aircraft Design and Research Institute
Ting Wang	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design
Ting Wang	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute
Ting Wang Xiaodi Gou	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd
Ting Wang Xiaodi Gou HuiYong Liu	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/0	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint
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Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/O Simulation Framework Du Chen Haomiao Jiang	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen Haomiao Jiang	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen Haomiao Jiang Haile Bai	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China Univ. of Electronic Science and
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen Haomiao Jiang Haile Bai	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen Haomiao Jiang Haile Bai Bing Luo	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen Haomiao Jiang Haile Bai Bing Luo	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen Haomiao Jiang Haile Bai Bing Luo Xiaoliang Luo	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen Haomiao Jiang Haile Bai Bing Luo Xiaoliang Luo Guangjun Wen	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China Academy of Military Science PLA Univ. of Electronic Science and
Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen Haomiao Jiang Haile Bai Bing Luo Xiaoliang Luo Guangjun Wen	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China Academy of Military Science PLA Univ. of Electronic Science and Technology of China
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Ting Wang Xiaodi Gou HuiYong Liu 15:50-17:50 663 Design of an INS/C Simulation Framework Du Chen Haomiao Jiang Haile Bai Bing Luo Xiaoliang Luo Guangjun Wen Jingfang Su Yongiun Huang	AVIC Shenyang Aircraft Design and Research Institute AVIC Shenyang Aircraft Design and Research Institute Kernelsoft Software Co. Ltd Kernelsoft Software Co. Ltd SatB11.69 CNS Integrated Navigation Joint Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China Academy of Military Science PLA Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China Univ. of Electronic Science and Technology of China

	Technology of China
15:50-17:50	SatB11.70
665 Research on the eve	olution of behavior strategy of agent
swarm game in random	interference environment
Shiguang Hu	Air Force Engineering Univ.
Le Ru	Air Force Engineering Univ.
Maolong Lv	State Key Laboratory of
	Unmanned Vehicle Technology
Bo Lu	Air Force Engineering Univ.
Wenfei Wang	Air Force Engineering Univ.
Hailong Xi	Air Force Engineering Univ.
15:50-17:50	SatB11.71
667 Generative AI tecl	nnology assists the research on the
reliability of aerospace d	evelopment
Manli Li	Beijing Institute of Satellite
	Environmental Engineering
	China Academy of Space
Zhiyong Wang	Technology Dynamical
	Administration Department
Hao Xu	Beijing Oriental Institute of
	Metrology and Testing
Shu Zhang	Aerospace Dongfanghong Satellite
ena znang	Co I td
15:50-17:50	SatB11 72
669 Online Prediction Me	ethod for Remaining Useful Life of
Aircraft Engine	
Bei Li	Naniing Univ. of Aeronautics and
	Astronautics
Cona Pena	Naniing Univ. of Aeronautics and
- 5 5	Astronautics
Sumu Shi	Naniing Univ. of Aeronautics and
	Astronautics
Junvi Liu	Naniing Univ. of Aeronautics and
• j	Astronautics
15:50-17:50	SatB11 73
670 A Motion Plannin	g Framework with Learning based
Traiectory Prediction in S	Self Driving
Feivu Bian	Northwestern Polytechnical Univ
Xina Liu	Northwestern
,	Polytechnical Univ
Yizhai Zhang	Northwestern
i Litai Litai g	Polytechnical Univ
Zhigiang Ma	Northwestern
	Polytechnical Liniv
Gandhui Shen	Northwestern
Cangha Shen	Polytochnical Univ
Panfeng Huang	Northwestern
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670 其工海湖平省计码=	Said 11.74
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Ving Luo	Astronautics
Doyi Criefi	manjing only. of Aeronautics and

	Telecommunications
15:50-17:50	SatB11.81
692 Cost-Based Switch	ing Formation Control for Multi-UAV
Systems Under DoS Atta	cks
Shuqing Wu	Nanjing Univ. of Aeronautics and
	Naniing Univ of Aeronautics and
Shuang Shi	Astronautics
	Naniing Univ of Aeronautics and
Zhen Wang	Astronautics
15.50-17.50	SatB11.82
13.30-17.30 600 甘工会粉今佔古石栏	34D11.02
090 至了王奴于仍兵小况	的 (在 秋 什 村 续 耒 成 挜 证 纹 不 ሣ 元
Qi Zhang	AVIC Shenyang Alicran Design
Dapeng Zhou	AVIC Shenyang Alician Design
	and Research Institute
Yongyi Liu	AVIC Snenyang Aircraft Design
	and Research Institute
Limeng Zhao	AVIC Shenyang Aircraft Design
	and Research Institute
15:50-17:50	SatB11.83
699 Guidance and Con	trol Based on Nonsingular Terminal
Sliding Mode Control for A	Asteroid Landing with a Flexible Lander
Weifeng Yan	Tsinghua Univ.
Hexi Baoyin	Tsinghua Univ.
15:50-17:50	SatB11.84
701 Research on fault	injection verification technology for
airborne high-security so	ftware based on chaos engineering
Yongyi Liu	AVIC Shenyang Aircraft Design
	and Research Institute
Qi Zhang	AVIC Shenyang Aircraft Design
	and Research Institute
Limeng Zhao	AVIC Shenyang Aircraft Design
	and Research Institute
HuiYong Liu	AVIC Shenyang Aircraft Design
	and Research Institute
Xiaodi Gou	AVIC Shenyang Aircraft Design
	and Research Institute
15:50-17:50	SatB11.85
702 基于虚幻引擎的半物	理仿真平台设计与应用
Qinbo Yu	AVIC Xi'AN Flight Automatic
	Control Research Institute
Weitong Liu	AVIC Xi'AN Flight Automatic
Ū	Control Research Institute
Shaolong Song	AVIC Xi'AN Flight Automatic
5 5	Control Research Institute
Bo Xue	AVIC Xi'AN Flight Automatic
	Control Research Institute
15:50-17:50	SatB11 86
705 Attitude Control of D	ucted Ean LIAV based on INDL and
Priority Control Allocation	and an one based on mor and
Yilong Shan	South China Univ. of Tochnology
	South Griffia Offix. Of Technology

Xilong Shan	South China Univ. of Technology
Hailong Pei	South China Univ. of Technology
Zihuan Cheng	South China Univ. of Technology

	Astronautics
Vanhin Liu	Nanjing Univ. of Aeronautics and
	Astronautics
linhao Chen	Nanjing Univ. of Aeronautics and
	Astronautics
15:50-17:50	SatB11.75
680 基于舰载机飞行模拟仿	真环境的舰艇运动模拟仿真系统究
Ruiyang Ban	AVIC Shenyang Aircraft Design
	and Research Institute
Dapeng Zhou	AVIC Shenyang Aircraft Design
	and Research Institute
Jiping Han	AVIC Shenyang Aircraft Design
	and Research Institute
Yong Zhang	AVIC Shenyang Aircraft Design
	and Research Institute
15:50-17:50	SatB11.76
683 Ground-to-Air Visual	Detection of UAV: AirSim-Based
Dataset Generation and Dec	ep Learning Evaluation
Jingming Yan	Sun Yat-sen Univ.
Jiaqi ∠hou	Sun Yat-sen Univ.
Xiangyu Zhu	Sun Yat-sen Univ.
Dongjie Zhou	Harbin Institute of Technology,
	Harbin
Zhoujingzi Qiu	Technology of China
Vong Wong	Sun Vat son Univ
	Suit fat-sell Univ.
684 Stability Analysis of Cu	vidance and Control System of RTT
Missiles with Radome Ah	ation: A Multivariate Simplification
Approach	
Wanxin Zhu	Beihang Univ
Yifan Wu	Beihang Univ
ling Zhang	Beinand Univ.
Jing Zhang	Beihang Univ.
Jing Zhang Lingyu Yang	Beihang Univ. Beihang Univ. Beihang Univ.
Lingyu Yang 15:50-17:50	Beinang Univ. Beihang Univ. Beihang Univ. SatB11.78
Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl	Beinang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors
Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors
Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li	Beinang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology
Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology
Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology
Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology
Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology SatB11.79
Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落伞编	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology
Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落李编、 Dajun Xu	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology
Lingyu Yang Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落伞编 Dajun Xu Xiaorui Gong	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology
Lingyu Yang Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落伞编加 Dajun Xu Xiaorui Gong Jiajun Xiong	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology
Lingyu Yang Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pli in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落李编 Dajun Xu Xiaorui Gong Jiajun Xiong Hanzhang	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology
Lingyu Yang Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落李编 Dajun Xu Xiaorui Gong Jiajun Xiong Hanzhang Cheng	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute o
Lingyu Yang Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落伞编 Dajun Xu Xiaorui Gong Jiajun Xiong Hanzhang Cheng 15:50-17:50	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology SatB11.79
Jing Zhang Lingyu Yang 15:50-17:50 686 Optimal Acceleration Plinits Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落伞编 Dajun Xu Xiaorui Gong Jiajun Xiong Hanzhang Cheng 15:50-17:50 690 Initial Alignment of SIN	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology SatB11.79 Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.
Lingyu Yang Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落伞编 Dajun Xu Xiaorui Gong Jiajun Xiong Hanzhang Cheng 15:50-17:50 690 Initial Alignment of SIN Angles based on IUKF	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute of Technology SatB11.79 Beihang Univ. Beihang Univ.
Lingyu Yang Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pl in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落本编 Dajun Xu Xiaorui Gong Jiajun Xiong Hanzhang Cheng 15:50-17:50 690 Initial Alignment of SIN Angles based on IUKF Jin Sun	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 Sanning for Quadrotors Beijing Institute of Technology Beijing Institute
Lingyu Yang Lingyu Yang 15:50-17:50 686 Optimal Acceleration Pli in Its Formation Rotation Muran Li Longze Zhao Kewei Xia Jianan Wang 15:50-17:50 688 基于有限元的降落李编 Dajun Xu Xiaorui Gong Jiajun Xiong Hanzhang Cheng 15:50-17:50 690 Initial Alignment of SIN Angles based on IUKF Jin Sun	Beihang Univ. Beihang Univ. Beihang Univ. SatB11.78 anning for Quadrotors Beijing Institute of Technology Beijing Institute o

Chaoheng Meng	South China Univ. of Technology
15:50-17:50	SatB11.87
706 Cooperative guidance	of glide bombs based on Gaussian
pseudo-spectral method	
Xuan Li	Xi'an Institute of Modern Control
	Technology
Rui Mao	Xi'an Institute of Modern Control
	Technology
Sheng Luo	Xi'an Institute of Modern Control
	Technology
Jiang Lou	Xi'an Institute of Modern Control
	Technology
15:50-17:50	SatB11.88
712 Mechanical Control En	gineering Simulation Experimental
Platform	
Dajun Xu	Beihang Univ.
Xiaorui Gong	Beihang Univ.
15:50-17:50	 SatB11.89
714 GBRF-Based Prediction	n of Total Air Pressure at the Outlet
of an Engine High-Pressure	Compressor
Kan Yang	Tsinghua Univ.
Ye Zhu	Aero-engine Control System
10 2.14	Institute
Zhanvan Xu	Aero-engine Control System
Zhanyan Xu	Institute
Xianfu Wang	91515 Unit of PLA
Oing Li	Tsinghua Univ.
15:50 17:50	SotP11.00
722 Research on Attitude D	Saturing of Saturity Datating
Platform Deced on Angle on	
Zhibui Li	Rejing Institute of Control
Zhinui Li	
Cuiming Li	Engineering
Guiming Li	
Ohan ahin Quan	
Changbin Guan	
	Engineering
Jianmin Znou	
N 5	Engineering
Mao Fan	
45 50 47 50	Engineering
15:50-17:50	SatB11.91
724 多体折展机翼变负载条	件卜目抗扰控制万法研究
Yitan Han	Nanjing Univ. of Aeronautics and
	Astronautics
Boyi Chen	Nanjing Univ. of Aeronautics and
	Astronautics
Yanbin Liu	Nanjing Univ. of Aeronautics and
	Astronautics
Jinbao Chen	Nanjing Univ. of Aeronautics and
	Astronautics
15:50-17:50	Astronautics SatB11.92

	Control Research Institute
Li Li	AVIC Xi'AN Flight Automatic
	Control Research Institute
Zhiyong Tan	AVIC Xi'AN Flight Automatic
	Control Research Institute
Fan Yang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Pengdong Sun	AVIC Xi'AN Flight Automatic
	Control Research Institute
Wenbin Xia	AVIC Xi'AN Flight Automatic
	Control Research Institute
15:50-17:50	SatB11.93
726 Distillation increme	ntal learning for surface mount defects
in industrial electronics	
Ziyao Wang	Univ. of Science and Technology
	of China
Yang Cao	Univ. of Science and Technology
	of China
Yu Kang	Univ. of Science and Technology
	of China
Kehao Shi	Univ. of Science and Technology
	of China
Lijun Zhao	Yangtze River Delta Hart robot
	industry Technology Research
	Institute
Zhenyi Xu	Hefei Comprehensive National
	Science Center
15:50-17:50	SatB11.94
727 具身智能机器人多	轮对话能力实现与未知
环境中的任务执行	
Xin Li	Beihang Univ.
JunJie Yu	Tsinghua Univ.
YuHang Wang	Beihang Univ.

LiMing Yu	Beihang Univ.
BinYan Liang	Beijing Precision
	Electromechanical Control
	Equipment Research Institute
15:50-17:50	SatB11.95
728 Design and Simulation of	of Calculating System of the Error
Distribution Based on the Co	ombined Navigation
Huadong Yang	Naval Research Institute of PLA
Zirong Jin	Naval Research Institute of PLA
15:50-17:50	SatB11.96
729 Closed-loop Identificati	on and Flight Test Verification of
Small UAVs Based on Multi-	model
Zhu Shao	Chinese Flight Test
	Establishment
Quan Zou	Chinese Flight Test
	Establishment
Zhekai Pang	Chinese Flight Test
	Establishment
15:50-17:50	SatB11.97

730 Observer Based Fixed-time Tracking Control for Hypersonic Gliding Vehicle

AVIC Xi'AN Flight Automatic

Zhaorong Dong	Beijing Institute of Aerospace
	Systems Engineering
Min Zhao	Beijing Institute of Aerospace
	Systems Engineering
Li Jiang	Beijing Institute of Aerospace
	Systems Engineering
Zhi Wang	Beijing Institute of Aerospace
	Systems Engineering
15:50-17:50	SatB11.98
731 Discharge Trajectory	Prediction of Lithium-ion Battery
Based on Digital Twin Aggr	egation
Jiayin Zhu	Nanjing Univ. of Aeronautics and
	Astronautics
Cong Peng	Nanjing Univ. of Aeronautics and
	Astronautics
Yuyue Wu	Nanjing Univ. of Aeronautics and
	Astronautics
15:50-17:50	SatB11.99
734 Research on the T	echnology of Fusion-based VOR
Navigation/ Approach Fu	nction Control Law Algorithm
Wei Zhang	AVIC First Aircraft Design and
	Research Institute
Feihong Jiang	AVIC First Aircraft Design and
	Research Institute
Weijie Cai	AVIC First Aircraft Design and
	Research Institute
15:50-17:50	SatB11.100
736 Depleted Shutdown	Analytical Guidance with Multiple
736 Depleted Shutdown Constraints	Analytical Guidance with Multiple
736 Depleted Shutdown Constraints Penglei Zhao	Analytical Guidance with Multiple Beijing Institute of Astronautical
736 Depleted Shutdown Constraints Penglei Zhao	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering,
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering,
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering,
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering,
 736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering,
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101 f UAV in large-scale unknown
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101 f UAV in large-scale unknown Preinforcement Learning approach
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, CatB11.101 f UAV in large-scale unknown Reinforcement Learning approach Zhejiang Univ.
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang 15:50-17:50	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang 15:50-17:50	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101 f UAV in large-scale unknown Define Comparison (Comparison (Comparis
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang 15:50-17:50 739 BDSBAS 希/ MSAS 在 Zhongzhi Wang	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101 Full Avitan Flight Automatic
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang 15:50-17:50 739 BDSBAS 和 MSAS 和 Zhongzhi Wang	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101 f UAV in Iarge-scale unknown of Reinforcement Learning approach Zhejiang Univ. SatB11.102
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang 15:50-17:50 739 BDSBAS 和 MSAS 和 Zhongzhi Wang Liu Gao	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101 f UAV in Iarge-scale unknown of Reinforcement Learning approach Zhejiang Univ. SatB11.102 Et中国和日本区域性能分析
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang 15:50-17:50 739 BDSBAS 和 MSAS 和 Zhongzhi Wang Liu Gao Liulang Zhong	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Systems Engineering, SatB11.101 f UAV in large-scale unknown of Reinforcement Learning approach Zhejiang Univ. Zhejiang Univ. SatB11.102 Et中国和日本区域性能分析 AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang 15:50-17:50 739 BDSBAS 和 MSAS 和 Zhongzhi Wang Liu Gao Jinliang Zhang	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang 15:50-17:50 739 BDSBAS 利 MSAS 和 Zhongzhi Wang Liu Gao Jinliang Zhang	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical SatB11.101 f UAV in large-scale unknown or Reinforcement Learning approach Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. SatB11.102 Et中国和日本区域性能分析 AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute
736 Depleted Shutdown Constraints Penglei Zhao Xiao Hu Rui Yang Juan Lv Yongtao Bi 15:50-17:50 738 Motion planning o environments using a Deep Shiqi Huang Zhou Fang 15:50-17:50 739 BDSBAS 和 MSAS 和 Zhongzhi Wang Liu Gao Jinliang Zhang Jin Chang	Analytical Guidance with Multiple Beijing Institute of Astronautical Systems Engineering, Beijing Institute of Astronautical SatB11.101 f UAV in large-scale unknown of Reinforcement Learning approach Zhejiang Univ. Zhejiang Univ. Zhejiang Univ. SatB11.102 FrJEMID本区域性能分析 AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic

Jue Gong	AVIC Xi'AN Flight Automatic Control Research Institute
15:50-17:50	SatB11.103
741 Overview and Prospects	of Battlefield Situation Cognition
Technology Based on Genera	tive Large Model
Hongfeng Xu	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
Jiajia Zhao	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
Hang Zhang	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
Jixiang Jiang	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
Linxiu Chen	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
15:50-17:50	SatB11.104
742 势函数驱动的主动侧杆包	线保护策略研究
Renging Zhai	AVIC Xi'AN Flight Automatic
	Control Research Institute
Linyi Zhi	Aircraft Strength Research
,	Institute of China
Mingzhuang	AVIC Xi'AN Flight Automatic
Zhang	Control Research Institute
Jiahang Lai	AVIC Xi'AN Flight Automatic
Ū	Control Research Institute
15:50-17:50	SatB11.105
744 Attitude Simulation Analys	is of Unfolding Process of Folding
Rudders Based on the Model	of Probability Deviation
Xiao Hu	Beijing Institute of Astronautical
	Systems Engineering,
Jin Wang	Sichuan Institute of Aerospace
5	System Engineering
Ya Gao	Sichuan Institute of Aerospace
	System Engineering
15:50-17:50	SatB11.106
746 A Hierarchical Adaptation	Region Searching Method Based
on DS Evidence Theory	0 0
Wen Ju	the Pattern Recognition on
	National Key Laboratory of
	Science and Technology on
	Aerospace Intelligence Control
Jiaolong Liu	the Pattern Recognition on
-	National Key Laboratory of
	Science and Technology on
	Aerospace Intelligence Control
Miaomiao	the Pattern Recognition on
Zhang	National Key Laboratory of
-	Science and Technology on

	Aerospace Intelligence Control	Zhenyi Xu
Zhenpo Tian	the Pattern Recognition on	Kehao Shi
	National Key Laboratory of	
	Science and Technology on	Yu Kang
	Aerospace Intelligence Control	
15:50-17:50	SatB11.107	
747 A Decision-Making App	proach to Game Manoeuvres for	15:50-17:5
3D Spatial Intelligence	e based on DQN-Experience	760 蜂群
Enhancement		Weitona L
Bo Lu	Air Force Engineering Univ.	5
Le Ru	Air Force Engineering Univ.	Qinabo Yu
Maolong Ly	Air Force Engineering Univ.	g
Xiaolin Zhao	Air Force Engineering Univ	Shaolong
Shiguang Hu	Air Force Engineering Univ	endereng
Wenfei Wang	Air Force Engineering Univ	Bo Xue
Hailong Yi		Do Auc
	Air Torce Engineering Oniv.	15.50 17.1
15.50-17.50	SatB11.100	15:50-17:0
748 Geometric Feature-bas	ed Airport Runway Line Detection	763 Res
Liang Yu	AVIC XI'AN Flight Automatic	HumanMa
	Control Research Institute	Yipeng Liu
15:50-17:50	SatB11.109	
752 基于小脑模型的无人机	避撞保连通协同容错控制	Pinghui Ji
Wenhui Ding	Nanjing Tech Univ.	
Moshu Qian	Nanjing Tech Univ.	Haipeng Y
Fengjiang Zhan	Nanjing Univ. of Aeronautics and	
	Astronautics	Shiyao Li
15:50-17:50	SatB11.110	
15:50-17:50 753 A Layered Initial L	SatB11.110 Design Method for Interplanetary	Wei Li
15:50-17:50 753 A Layered Initial E LowThrust Trajectory Based	SatB11.110 Design Method for Interplanetary d on Shaping Approach	Wei Li
15:50-17:50 753 A Layered Initial E LowThrust Trajectory Based Liangyong Fu	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control	Wei Li 15:50-17:
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering	Wei Li 15:50-17:5 764 非相得
15:50-17:50 753 A Layered Initial L LowThrust Trajectory Based Liangyong Fu Shoulei Chen	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control	Wei Li 15:50-17:{ 764 非相行
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering	Wei Li <u>15:50-17:</u> 764 非相 Xukun Li
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control	Wei Li 15:50-17:5 764 非相 Xukun Li
15:50-17:50 753 A Layered Initial L LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering	Wei Li 15:50-17:: 764 非相, Xukun Li Liping Zhu
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control	Wei Li 15:50-17:: 764
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control	Wei Li 15:50-17:: 764 非相注 Xukun Li Liping Zhu Lei Feng
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111	Wei Li <u>15:50-17:</u> 764 非相 Xukun Li Liping Zhu Lei Feng
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on	Wei Li <u>15:50-17:</u> 764 非相行 Xukun Li Liping Zhu Lei Feng Bei Tian
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vecto Incremental Dynamic Inversi	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on	Wei Li <u>15:50-17:</u> 764 非相 Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion	Wei Li 15:50-17:: 764 非相, Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC XI'AN Flight Automatic Control Personer Institute	Wei Li 15:50-17:: 764 非相, Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S
15:50-17:50 753 A Layered Initial L LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chop	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC Xi'AN Flight Automatic Control Research Institute	Wei Li 15:50-17:: 764 非相 Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S Constraint
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic	Wei Li 15:50-17:: 764 非相 Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S Constraint
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vecto Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC XI'AN Flight Automatic Control Research Institute AVIC XI'AN Flight Automatic Control Research Institute	Wei Li 15:50-17:: 764 非相 Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S Constraint Nuo Chen
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen Yuelong Ma	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic	Wei Li 15:50-17:: 764 非相 Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S Constraint Nuo Chen
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen Yuelong Ma	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute	Wei Li 15:50-17:1 764 非相 Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:1 766 A Par Terminal S Constraint Nuo Chen Bo Shen
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen Yuelong Ma Ning Zhang	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic	Wei Li 15:50-17:: 764 非相 Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S Constraint Nuo Chen Bo Shen
15:50-17:50 753 A Layered Initial L LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen Yuelong Ma Ning Zhang	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute	Wei Li 15:50-17:: 764 非相 Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S Constraint Nuo Chen Bo Shen Wei Li
15:50-17:50 753 A Layered Initial L LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen Yuelong Ma Ning Zhang Qiang Chen	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC XI'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic	Wei Li 15:50-17: 764 #### Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17: 766 A Par Terminal S Constraint Nuo Chen Bo Shen Wei Li
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen Yuelong Ma Ning Zhang Qiang Chen	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic	Wei Li 15:50-17: 764 #### Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17: 766 A Par Terminal S Constraint Nuo Chen Bo Shen Wei Li Pinghui Jia
15:50-17:50 753 A Layered Initial D LowThrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen Yuelong Ma Ning Zhang Qiang Chen 15:50-17:50	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC XI'AN Flight Automatic Control Research Institute AVIC XI'AN Flight Automatic Control Research Institute SatB11.112	Wei Li 15:50-17:: 764 # # Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S Constraint Nuo Chen Bo Shen Wei Li Pinghui Ji
15:50-17:50 753 A Layered Initial L Low Thrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen Yuelong Ma Ning Zhang Qiang Chen 15:50-17:50 757 Few-shot PCB Segme	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute	Wei Li 15:50-17:: 764 ### Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S Constrain Nuo Chen Bo Shen Wei Li Pinghui Ji Liangbo Z
15:50-17:50 753 A Layered Initial L Low Thrust Trajectory Based Liangyong Fu Shoulei Chen Dongning Lu Yiwu Liu 15:50-17:50 756 Design of Thrust Vector Incremental Dynamic Inverse Hengyu Liu Xiaolong Chen Yuelong Ma Ning Zhang Qiang Chen 15:50-17:50 757 Few-shot PCB Segme Learning and Multi-scale Full	SatB11.110 Design Method for Interplanetary d on Shaping Approach Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering Beijing Institute of Control Engineering SatB11.111 r Aircraft Control Law Based on sion AVIC Xi'AN Flight Automatic Control Research Institute AVIC Xi'AN Flight Automatic Control Research Institute	Wei Li 15:50-17:: 764 ### Xukun Li Liping Zhu Lei Feng Bei Tian 15:50-17:: 766 A Par Terminal S Constraint Nuo Chen Bo Shen Wei Li Pinghui Ji Liangbo Z

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atory of		of China
ogy on	Yu Kang	Institute of Artificial Intelligence,
Control		Hefei Comprehensive National
11.107		Science Center
for	15:50-17:50	SatB11.113
erience	760 蜂群多机目标光电定位	位算法及仿真验证
	Weitong Liu	AVIC Xi'AN Flight Automatic
g Univ.	Ū	Control Research Institute
g Univ.	Qingbo Yu	AVIC Xi'AN Flight Automatic
g Univ.	C C	Control Research Institute
g Univ.	Shaolong Song	AVIC Xi'AN Flight Automatic
g Univ.		Control Research Institute
g Univ.	Bo Xue	AVIC Xi'AN Flight Automatic
a Univ.		Control Research Institute
11.108	15:50-17:50	SatB11.114
ection	763 Research on D	vnamic Management Method of
omatic	HumanMachine Authority	Based on Fuzzy Logic
ornatio		Beijing Institute of Space Long
11 100	Yipeng Liu	March Vehicle
011.109	Pinghui lin	Reijing Institute of Space Long
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	Shiyao Li	March Vahiala
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11.111	Bei Tian	
on		Control Research Institute
•	15:50-17:50	SatB11.116
omatic	766 A Parameter Optimiza	tion Method for Non-singular
nstitute	Terminal Sliding Mode Gu	idance Law with Falling Angle
omatic	Constraint	
nstitute	Nuo Cheng	Beijing Institute of Space Long
omatic		March Vehicle
nstitute	Bo Shen	China Academy of Launch
omatic		Vehicle Technology
nstitute	Wei Li	Beijing Institute of Space Long
omatic		March Vehicle
nstitute	Pinghui Jia	Beijing Institute of Space Long
11.112		March Vehicle
ransfer	Liangbo Zhao	Beijing Institute of Space Long
		March Vehicle
ui Univ.	15:50-17:50	SatB11.117

769 Attitude control of fully-act	tuated flexible spacecraft based
on linear active disturbance reje	ection control
Yudong Hu	Harbin Institute of Technology
Zhongwei Shi	Harbin Engineering Univ.
Xu Li	Harbin Engineering Univ.
Yuxuan Chen	Harbin Engineering Univ.
Changsheng Gao	Harbin Institute of Technology
15:50-17:50	SatB11.118
772 UAV Trajectory Tracking Ba	ased on Model Predictive
Control	
Cheng Ma	Harbin Institute of Technology,
	Harbin
Xu Wen	Harbin Institute of Technology,
	Harbin
Jiadong Yang	Harbin Institute of Technology,
	Harbin
Tao Chao	Harbin Institute of Technology,
	Harbin
15:50-17:50	SatB11.119
774 Cooperative Missile Aerody	namic Control Based on
Squeeze Mode Condition	
Yang Fang	Beihang Univ.
Menghao Liao	Graduate School of Chinese
	Aeronautical
	Establishment
Xiaoming Liu	Beihang Univ.
Shuding Li	Beihang Univ.
Peng Wang	Beihang Univ.
15:50-17:50	SatB11.120
777 Attitude Control and Active	e Fault Isolation for Spacecraft
Attitude Control System with LT	L and Optimization Methods
SongtaoWang	Shanghai Jiaotong Univ.
Qiang Shen	Shanghai Jiaotong Univ.
Huihui Li	Shanghai Jiaotong Univ.
15:50-17:50	SatB11.121
779 The Security Architecture	and Methodology of Cyber-
Physical-Social System and Its A	pplication to Boeing 737 Max 8
Accident Analysis	
Mengjin Qu	Tsinghua Univ.
Zhixiong Fang	Tsinghua Univ.
Kan Yang	Tsinghua Univ.
Qing Li	Tsinghua Univ.
15:50-17:50	SatB11.122
782 On the Monitoring Method of	Fly-By-Wire Oscillatory
Failure Case Based on Nonlinear	r Robust Observer and
Wavelet Decomposition	
Qingwei Shen	Shanghai Aircraft Design and
	Research Institute
Jun Sima	Shanghai Aircraft Design and
	Research Institute
Xinghua Liu	Shanghai Aircraft Design and
	Research Institute
15:50-17:50	SatB11.123

for Multi-quadrotors Trans	portation Systems
Yuan Ping	Tianjin Univ.
Juntong Qi	Tianjin Univ.
Mingming Wang	Tianjin Univ.
Chong Wu	EFY Intelligent Control
15:50-17:50	SatB11.124
788 Laser Frequency Stabi	lization and Linewidth Narrowing
Technology Based on Exter	rnal Phase Lock Control System
Zhaoyang Cao	Beihang Univ.
Xinxiu Zhou	Beihang Univ.
15:50-17:50	SatB11.125
791 飞控系统自动化测试系	统及用例自动生成技术研究
Xinning Tang	AVIC Shenyang Aircraft Design
	and Research Institute
Hao Liu	AVIC Shenyang Aircraft Design
	and Research Institute
Kaijia Xue	AVIC Shenyang Aircraft Design
	and Research Institute
Shuyi Liu	AVIC Shenyang Aircraft Design
	and Research Institute
Tianzhen Liang	AVIC Shenyang Aircraft Design
C C	and Research Institute
15:50-17:50	SatB11.126
796 基于深度学习的动车组	转向架螺栓缺陷检测
Zhiyong Li	Huazhong Univ. of Science and
, ,	Technology
Gang Peng	Huazhong Univ. of Science and
	Technology
Zhonghua Deng	Huazhong Univ. of Science and
	Technology
ChaoZe Wang	Huazhong Univ. of Science and
	Technology
Chaowei Song	Huazhong Univ. of Science and
-	Technology
Mingjun Chong	Huazhong Univ. of Science and
	Technology
Zhang Deng	Beijing Railway Engineering
	Electromechanical Technology
	Research Institute Co.
Xinbin Xiong	Beijing Railway Engineering
	Electromechanical Technology
	Research Institute Co.
Chong Li	Wuhan Lisai Technology Co.
15:50-17:50	SatB11.127
797 Research on Attitude C	Control Method for Coaxial
Compound Helicopter durin	g Nap-of-the-earth Flight
Peng Xie	Nanjing Univ. of Aeronautics and
- 1	Astronautics

Nanjing Univ. of Aeronautics and

Nanjing Univ. of Aeronautics and

Nanjing Univ. of Aeronautics and

Astronautics

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787 Differential-Flatness based Smooth Trajectory Generation

Yuxin Tian

Yehua Liu

Pengfei Zhai

Shouzhao Sheng	Nanjing Univ. of Aeronautics and
	Astronautics
Suozhong Yuan	Nanjing Univ. of Aeronautics and
45 50 47 50	Astronautics
15:50-17:50	
798 基十气动力加速度估计的	1局超声速消翔、行器智能轨迹顶测
Mingjun Yu	Nanjing Univ. of Aeronautics and
	Astronautics
Jialiang Zhang	Nanjing Univ. of Aeronautics and
	Astronautics
Haidong Shen	Nanjing Univ. of Aeronautics and
	Astronautics
Yandin Liu	Nanjing Univ. of Aeronautics and
link Oh	Astronautics
Jindao Chen	Nanjing Univ. of Aeronautics and
45 50 47 50	Astronautics
15:50-17:50	SatB11.129
803 Multi-Aircraπs Trajectory	Planning Using Ennanced
Multi-Population Gray Wolf O	ptimization
Jinmei Znou	Nanjing Univ. of Aeronautics and
Vana Dian	Astronautics
Yong Ding	Nanjing Univ. of Aeronautics and
Via Our	Astronautics
Xin Cun	Nanjing Univ. of Aeronautics and
45 50 47 50	Astronautics
15:50-17:50	SatB11.130
807 PLIC-SLAM: An Improved	d SLAM algorithm
based on point-line feature fu	sion
Leie XI	
T:	
Hanyou wei	
Changun Zhang	
Shaoquit Zhang	
Kuibao Zhu	Hoboi Liniy, of Science and
15.50 17.50	SotP11 121
15.50-17.50	fan Oanaansen Traaking Oantrak
810 Reinforcement Learning	for Consensus Tracking Control
of Multi-agent Systems	
Luning Yang	Beihang Univ.
Jiang Zhao	Beihang Univ.
Chi Pei	Beihang Univ.
Yingxun Wang	Beihang Univ.
15:50-17:50	SatB11.132
811 Research on GNC Real-t	ime Health Assessment Method
for Rendezvous And Docking	Spacecraft Based on
Telemetry Data Driven	
Hui Hao	Beijing Institute of Control
	Engineering
Zongyu Liu	
	Beijing Institute of Control
	Beijing Institute of Control Engineering
Zengbo Liu	Beijing Institute of Control Engineering Beijing Institute of Control
Zengbo Liu	Beijing Institute of Control Engineering Beijing Institute of Control Engineering

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	Engineering
Qiang Zhang	Beijing Institute of Control
	Engineering
15:50-17:50	SatB11.133
812 Long runtime inertial nav	igation error correction
algorithm based on map mate	ching
GuoliangYang	AVIC Xi'an Flight Automatic
	Control Research Institute
Liu Gao	AVIC Xi'an Flight Automatic
	Control Research Institute
Fang Liu	AVIC Xi'an Flight Automatic
	Control Research Institute
Jin Zeng	AVIC Xi'an Flight Automatic
	Control Research Institute
Jiale Wu	Northwestern Polytechnical Univ.
Yabo Zhu	Northwestern Polytechnical Univ.
15:50-17:50	SatB11.134
813 Reinforcement Learning	Driven Autonomous Active
Debris Removal Strategy Bas	sed on Angles-Only
Navigation	0
Zhena Chen	Beihang Univ.
Rui Zhong	Beihang Univ.
15:50-17:50	SatB11 135
815 基于最大熵安全强化学习	7的无人机路径规划
Feisheng Yang	Northwestern Polytechnical Univ
Chengliang Fang	Northwestern Polytechnical Univ
Ruiiie Liang	Northwestern Polytechnical Univ
15:50-17:50	SatB11 136
917 Minimum time Trainston	Planning for Acrossisted
monouver under Both Constr	cinto
Viongdong Eong	Poiiing Institute of Technology
	Beijing Institute of Technology
Ruifong Ly	Beijing Institute of Technology
	SetD11 127
15:50-17:50	Salb 11.137
818 GFE-Det: Global Feature	Enhanced Method for
Low-altitude Target Detection	
Maochao Chen	Northwestern Polytechnical Univ.
Zongcheng Miao	Northwestern Polytechnical Univ.
Kang Liu	Northwestern Polytechnical Univ.
15:50-17:50	SatB11.138
819 基于 GT-MADDPG 的多	无人车协同围捕策略
Dongting Xie	Nanjing Univ. of Aeronautics and
	Astronautics
Yin Wang	Nanjing Univ. of Aeronautics and
	Astronautics
Jian Gu	Nanjing Univ. of Aeronautics and
	Astronautics
15:50-17:50	SatB11.139
820 Parameter-adjustable dis	tributed nonlinear fault
observer design for nonlinear	multi-agent system with
disturbance	
Yuhui Weng	Nanjing Univ. of Aeronautics and

Astronautics

Nanjing Univ. of Aeronautics and

Jianwei Liu

	Astronautics
Huiwen Liu	Shanghai Aerospace Control
	Technology Institute
Ruizhi Qin	Nanjing Univ. of Aeronautics and
	Astronautics
15:50-17:50	SatB11.140
822 A Robust Visual-Inertial O	dometry Leveraging
Point and Structural Line Feat	ures
Yumin Liu	Beihang Univ.
Zhihao Cai	Beihang Univ.
Jiawei Ji	Beihang Univ.
Jiang Zhao	Beihang Univ.
Yingxun Wang	Beihang Univ.
15:50-17:50	SatB11.141
823 行人三维运动模式识别和	高度计算
Shijia Wang	AVIC Opyronics
15:50-17:50	SatB11.142
824 Event-Based Object Dete	ction in Dynamic Scenes
Zizhao Wang	Beihang Univ.
Yingxun Wang	Beihang Univ.
Zhihao Cai	Beihang Univ.
Jiang Zhao	Beihang Univ.
15:50-17:50	SatB11.143
828 Analysis and Verification	of a Practical Method
For Initial Alignment of a Kiner	natic Base
Yongsheng Hu E	Beijing Keeven Aviation Instrument
	Co.,Ltd.
Chenglong Duan E	Beijing Keeven Aviation Instrument
	Co.,Ltd.
15:50-17:50	SatB11.144
831 Control of a Bi-Copter UA	V Subject to Model
Uncertainties	
Zeyu Hao	Beihang Univ.
Zhihao Cai	Beihang Univ.
15:50-17:50	SatB11.145
832 A Self-updating Digital Mo	odel Method For Aero-engines
Sumu Shi	Nanjing Univ. of Aeronautics and
	Astronautics
Cong Peng	Nanjing Univ. of Aeronautics and
	Astronautics
Bei Li	Nanjing Univ. of Aeronautics and
	Astronautics
Junyi Liu	Nanjing Univ. of Aeronautics and
	Astronautics
Sijia Yu	Nanjing Univ. of Aeronautics and
	Astronautics
Zheyan Ji	Nanjing Univ. of Aeronautics and
	Astronautics
15:50-17:50	SatB11.146
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838 Calculation of Beyond Visual Range Air Combat All Domain Fire Field and Application of Situation Threat Assessment and Assisted Decision Making

Yueyao Cao	Fudan Univ.
Tao Xue	Fudan Univ.

Shanshan He	Fudan Univ.
Jianliang Ai	Fudan Univ.
Yiqun Dong	Fudan Univ.
15:50-17:50	SatB11.147
839 Test point layout optimiza	tion based on multi-signal flow
graph and harmony search alg	gorithm
Xin Luo	AVIC Chengdu Aircraft Industrial
	(Group) Co., Ltd
Zixuan You	Beihang Univ.
Hongrui Xiong	AVIC Chengdu Aircraft Industrial
	(Group) Co., Ltd
Zhanbao Gao	Beihang Univ.
15:50-17:50	SatB11.148
840 Multi-Constraint Guidance	e Law Design for Asymmetric
Vision with Side Window Dete	ction
Haoran Fang	Beijing Institute of Technology
Shipeng Fan	Beijing Institute of Technology
Xinyao Duan	Beijing Institute of Technology
15:50-17:50	SatB11.149
841 Identification of Spacecra	ft Attitude Control System
based on MOESP Subspace I	Method
Yingjie Pan	Beijing Institute of Technology
Han Gao	Beijing Institute of Technology
15:50-17:50	SatB11.150
844 基于眼动牵引定义的飞行	员中远距空战
关键决策行为指标析出及体系。	构建
Jun Yao	Fudan Univ.
Jingqi Tu	Fudan Univ.
Can Wang	Fudan Univ.
Jianliang Ai	Fudan Univ.
Yiqun Dong	Fudan Univ.
15:50-17:50	SatB11.151
845 Evaluation of Cluster Forr	mation and Obstacle Avoidance
Algorithms	
Jiang Zhao	Beihang Univ.
Zhi Yang	Beihang Univ.
Pei Chi	Beihang Univ.
Jiang Lou	Xi'an Modern Control Technology
	Research Institute
Yingxun Wang	Beihang Univ.
15:50-17:50	SatB11.152
846 A Reconfiguration Control	I method based on L1 Adaptive
for Aircraft Control Surface Da	mage
Jiaxing Wang	Shenyang Aircraft Design &
	Research Institute
Zheng Shao	Shenyang Aircraft Design &
	Research Institute
Hao Chen	Shanghai Aircraft Design &
	Research Institute
15:50-17:50	SatB11.153
848 Endmember Bundle Extra	action Based on Multimodal
and Multiphia ative Oversteens	Partiala Sucarma Ontimizar

and Multiobjective Quantum Particle Swarm Optimizer and Relative Spectral Angle Distance Jiewen Lin China Agricultural Univ.

	China Agricultural Uni
Xing Mao	Institute of Agricultural Informatio
	Jiangsu Academy of Agricultur
	Science
Ni Ren	Institute of Agricultural Informatio
	Jiangsu Academy of Agricultur
	Science
15:50-17:50	SatB11.15
849 Control Method for Po	sture Stabilization and Accurate
Deployment of Remotely C	Operated Vehicles in Ocean
Current Environments	
Kang Zhang	Beihang Uni
Yuang Zhang	Wuhan Second Ship Design Ar
	Research Institu
Zhe Yu	Wuhan Second Ship Design Ar
	Research Institu
Xiaoxin Zhou	Wuhan Second Ship Design Ar
	Research Institu
Xinhui Wang	Beihang Uni
Pengyuan Qi	Beihang Uni
15:50-17:50	SatB11 15
852 Equit Impact Model of	Spacecraft Cluster Based on
	Spacecran Cluster Dased on
Cellular Automata	
Yuhan Nie	Shanghai Jiaotong Uni
Huibui Li	Shanahai liaatana Uni
	Shanghai shaotong ohi
Huiwen Zuo	Shanghai Jiaotong Uni
Huiwen Zuo Qiang Shen	Shanghai Jiaotong Uni Shanghai Jiaotong Uni Shanghai Jiaotong Uni
Huiwen Zuo Qiang Shen 15:50-17:50	Shanghai Jiaotong Uni Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15
Huina Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar	Shanghai Jiaotong Uni Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 nd Control System for Rocket-assiste
Huina Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider	Shanghai Jiaotong Uni Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 nd Control System for Rocket-assiste
Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 nd Control System for Rocket-assiste Beihang Uni
Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 nd Control System for Rocket-assiste Beihang Uni Beihang Uni
Huma Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 nd Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni
Huina Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 nd Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni
Huina Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 nd Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni
Hundi Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 nd Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15
Hundi Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条件	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 ad Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15
Hundi Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条件 究	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 nd Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15
Hundi Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条f 死 Xun Huang	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 ad Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15 件下高超声速飞行器轨迹优化研 Nanjing Univ. of Aeronautics ar Astronautic
Hunda Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条件 究 Xun Huang Boyi Chen	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 ad Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15 件下高超声速飞行器轨迹优化研 Nanjing Univ. of Aeronautics ar Astronautic Nanjing Univ. of Aeronautics ar
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Hundi Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance an Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条件 宠 Xun Huang Boyi Chen Yanbin Liu	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 ad Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15 件下高超声速飞行器轨迹优化研 Nanjing Univ. of Aeronautics ar Astronautic Nanjing Univ. of Aeronautics ar Astronautic
Hundi Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance an Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条件 究 Xun Huang Boyi Chen Yanbin Liu Ben Yang	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 ad Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15 件下高超声速飞行器轨迹优化研 Nanjing Univ. of Aeronautics ar Astronautic Nanjing Univ. of Aeronautics ar Astronautic Nanjing Univ. of Aeronautics ar Astronautic
Hundi Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条件 充 Xun Huang Boyi Chen Yanbin Liu Ben Yang	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 ad Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15 件下高超声速飞行器轨迹优化研 Nanjing Univ. of Aeronautics ar Astronautic Nanjing Univ. of Aeronautics ar Astronautic Nanjing Univ. of Aeronautics ar Astronautic Nanjing Univ. of Aeronautics ar
Huina Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条f 死 Xun Huang Boyi Chen Yanbin Liu Ben Yang	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 ad Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15 件下高超声速飞行器轨迹优化研 Nanjing Univ. of Aeronautics ar Astronautic Nanjing Univ. of Aeronautics ar
Human Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance an Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条f 死 Xun Huang Boyi Chen Yanbin Liu Ben Yang Haoran Pang	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 ad Control System for Rocket-assiste Beihang Uni Beihang Uni Beihang Uni Beihang Uni Beihang Uni Beihang Uni SatB11.15 件下高超声速飞行器轨迹优化研 Nanjing Univ. of Aeronautics ar Astronautic Nanjing Univ. of Aeronautics ar
Huina Li Huiwen Zuo Qiang Shen 15:50-17:50 853 Design of Guidance ar Glider Xinke Sun Helu Yang Zhirong Cai Jiang Wu Tianyi Tan 15:50-17:50 854 面向控制的多约束条件 究 Xun Huang Boyi Chen Yanbin Liu Ben Yang Haoran Pang	Shanghai Jiaotong Uni Shanghai Jiaotong Uni SatB11.15 ad Control System for Rocket-assiste Beihang Uni Beihang Uni SatB11.15

Boyuan Shen	Beihang Univ.
Xi Huang	Beihang Univ.
Qingxian Li	Beihang Univ.
Pengyuan Qi	Beihang Univ.
15:50-17:50	SatB11 158
861 Signal processing metho	od of MEMS avro based on
Savitzky-Golav smoothing ar	nd wavelet transform
Baidong Zheng	Naval Aviation Univ
Wei Liu	Naval Aviation Univ
Honade Dai	Naval Aviation Univ
Rui Wang	Naval Aviation Univ
Foili	Naval Aviation Univ.
Yang Liu	Naval Aviation Univ.
16:50 17:50	SotP11 160
15:50-17:50	Sate 11.100
863 Adaptive Formation Con	trol for Multi-agent
Systems in Narrow Spaces	
Chao Wang	Beihang Univ.
Shuyuan Zhang	Beihang Univ.
Lei Wang	Beihang Univ.
15:50-17:50	SatB11.161
864 直升机飞控电静液作动器	紧架构设计与余度管理技术研究
Liangliang Bai	QINGAN GROUP CO., LTD
Yanxin Liu	QINGAN GROUP CO., LTD
Shihui Du	QINGAN GROUP CO., LTD
Nana Cui	QINGAN GROUP CO., LTD
15:50-17:50	SatB11.162
865 Fixed-Time-Synchronize	d Attitude Control of
Hypersonic Flight Vehicles	
Puxi Zhang	Beijing Institute of Technology
Zhao Yin	Beijing Institute of Technology
Shaolong Du	Northwest Industries Group
	Company Ltd
Chengyang Li	Beijing Institute of Technology
Wei Wang	Beijing Institute of Technology
15:50-17:50	SatB11.163
871 Path Planning and Track	king for Macroscopic Inspection
of Wind Turbines	
Hanwen Zhang	Nanjing Univ. of Aeronautics and
Ū	Astronautics
Biao Wang	Nanjing Univ. of Aeronautics and
5	Astronautics
Chaoving Tang	Naniing Univ. of Aeronautics and
enacying rang	Astronautics
Wei Chen	Naniing Univ of Aeronautics and
	Astronautics
15.50 17.50	SotB11 164
972 Lood Boood Corre Door	Salb 11.104
673 Load Based Cargo Door	
Analysis and Actuating Struc	TURE TRADEOTT
14/-:: 71	
Weijuan Zheng	Qingan Group .,Co., Ltd
Weijuan Zheng Chen Zhang	Qingan Group .,Co., Ltd Qingan Group .,Co., Ltd
Weijuan Zheng Chen Zhang Wenjing Zhi	Qingan Group .,Co., Ltd Qingan Group .,Co., Ltd Qingan Group .,Co., Ltd
Weijuan Zheng Chen Zhang Wenjing Zhi Hongjun Pang	Qingan Group .,Co., Ltd Qingan Group .,Co., Ltd Qingan Group .,Co., Ltd Qingan Group .,Co., Ltd
Weijuan Zheng Chen Zhang Wenjing Zhi Hongjun Pang 15:50-17:50	Qingan Group .,Co., Ltd Qingan Group .,Co., Ltd Qingan Group .,Co., Ltd Qingan Group .,Co., Ltd SatB11.165

Method Based on Particle Swarm Optimization

Yichen Wang	National Space Science
5	' Center.CAS
Dong Gao	National Space Science
g •	Center CAS
15:50-17:50	SatB11 166
876 基于虚实结合的	个飞控系统试验自动化测试技术
Xiaove Bi	AVIC Shervard Aircraft Design and
	Research Institute
Lulu Fena	AVIC Shervard Aircraft Design and
Luid Folig	AVIC Research Institute
Xiaozhi Dou	AVIC Shervang Aircraft Design and
	Research Institute
Zhigiang Ai	AVIC Shenvang Aircraft Design and
	Posoarch Instituto
Pong Chong	AVIC Shonyang Aircraft Dosign and
Felig Cherig	Research Institute
15.50 17.50	Research institute
15:50-17:50	disturbance predictive control of visid
org composite anti-	
spacecraft with time	-delay using multi-dimensional
Charlen v Li	Deiherre Univ
	Beinang Univ.
	Beihang Univ.
	Beihang Univ.
Zejun Zhang	Beihang Univ.
15:50-17:50	SatB11.168
881 VTOL Aircraft A	ngular Rate Control based on Adaptive
Filtering	
Qi Zhu	Northwestern Polytechnical Univ.
Yongxi Lyu	Northwestern Polytechnical Univ.
Jingping Shi	Northwestern Polytechnical Univ.
Ruiping Zheng	Northwestern Polytechnical Univ.
Fuxiang Qiao	AVIC Xi'an Flight Automatic
	Control Research Institute
Shaomin He	AVIC Xi'an Flight Automatic
	Control Research Institute
Runhu Li	Northwestern Polytechnical Univ.
15:50-17:50	SatB11.169
894 Trajectory Plan	ning of Multiple Unmanned Aerial
Vehicles On MAPPO)
Jun Fang	Northwestern Polytechnical Univ.
Xiaohang Wu	Northwestern Polytechnical Univ.
Shunmin Li	Beijing Institute of Space Long March
	VehicleNorthwestern Polytechnical
	Univ.
Aijun Li	Systems Engineering Research
	Institute
Yong Guo	Northwestern Polytechnical Univ.
15:50-17:50	SatB11.170
895 A launch vehicle	e cluster launch mission planning method
based on contract n	etwork protocol
Haoyu Zhao	Northwestern Polytechnical Univ
Yibo Dina	Northwestern Polytechnical Univ
Xiaokui Yue	Northwestern Polytechnical Univ
-	,

001 其二次府二世习的田	<u>大学动机性能新潮士注册</u> 索
JUI	アスタリガルI生形JUCTIの方法研え Shenvang Acrossons Linit
Rivuan Lou	Shenyang Aerospace Univ
Bixuali Lou	Shenyang Aerospace Univ
Pengcheng Yu	Shenyang Aerospace Univ
	Shenyang Aerospace Oniv
15:50-17:50	SatB11.172
903 受构型液体火箭发动机	液膜冷却建模仿具与可视化软件升友
Pengcheng Yu	Shenyang Aerospace Univ
Huixin Yang	Shenyang Aerospace Univ
15:50-17:50	SatB11.173
904 Sequence cleaning of	Wi-Fi round-trip time measurement
for indoor positioning using	SegRNN
Chengzhi Liu	China Agricultural Univ
Zimeng Wang	China Agricultural Univ
Yantao Jia	China Agricultural Univ
15:50-17:50	SatB11.174
905 Experimental Verificati	on of a Fast and
Low-Cost Calibration Appro	oach for Long-Wave
Infrared Cameras in Vision	Navigation
Haoming Wang	AVIC Xi'an Flight Automatic
	Control Research Institute
Jiahang Dong	AVIC Xi'an Flight Automatic
	Control Research Institute
Yazhou Yue	AVIC Xi'an Flight Automatic
	Control Research Institute
Xiaodong Zhang	AVIC Xi'an Flight Automatic
	Control Research Institute
Qi Zhou	AVIC Xi'an Flight Automatic
	Control Research Institute
Nan Liu	AVIC Xi'an Flight Automatic
	Control Research Institute
Guaniie Wang	AVIC Xi'an Flight Automatic
<u>-</u>	Control Research Institute
Jin Jiang Wang	AVIC Xi'an Flight Automatic
oniolang trang	Control Research Institute
Haofeng Jiang	AVIC Xi'an Flight Automatic
hadiong blang	Control Research Institute
15.50-17.20	SatB11 175
007 <i>基于世世由自然于人和</i>	的农业植保应田方注研究
Vunshu Vao	
Pui Zhong	Beijing Jiaotong Univ
	Beijing Jiaotong Univ
Chen Cao	Beijing Jiaotong Univ
Siqian Gong	Beijing Jiaotong Univ
Yang Liu	Beijing Jiaotong Univ
15:50-17:50	atB11.176
909 Research on Construc	tion Method of Path Angle Signal
in MAGIC CARPET	
	AVIC Shenyang Aircraft Design and
Xiulin Zhang	
Xiulin Zhang	Research Institute
Xiulin Zhang Ning Yang	Research Institute AVIC Shenyang Aircraft Design and
Xiulin Zhang Ning Yang	Research Institute AVIC Shenyang Aircraft Design and Research Institute

15:50-17:50	SatB11.177
0基于可达集的航天器多对	一博弈几何求解方法
Zhaohang Li	Beijing Institute of Technology
Bo Pang	Beijing Institute of Technology
Changxuan Wen	Beijing Institute of Technology
Dong Qiao	Beijing Institute of Technology
SunA1	3rd Floor Meeting Room 305
Hybrid GNCI	三层会议室 305
Chairs: Hao Chen N	ational Univ.of Defense Technology
Li Yu N	lational Univ.of Defense Technology
13:30-13:38	SunA1.1
687 无人直升机部分姿态约	束安全飞行控制
Jiawei Du	Xi'an Univ. of Technology
Fianhong Lii	Xi'an Univ. of Technology
Yankai Li	Xi'an Univ. of Technology
Dongping Li	Xi'an Univ. of Technology
/ingmin Yi	Xi'an Univ. of Technology
/ulong Huang	Xi'an Univ. of Technology
3:38-13:46	SunA1 2
0.00 10.10	or rotating equinment fault
liagnosis	
Zhenvi Xu	Jianghuai Advance Technology
	Center
Dilai Wu	lianghuai Advance Technology
	Center
iaolong Wei	Iniv. of Science and Technology
	of China
linkun Liu	Iniv. of Science and Technology
	of China
anming Guo	National Univ. of Defense
(u Kong	Hofoi Comprohonsivo National
unang	Science Contor
2.46 12.54	Science Ceriter
3.40-13.34 222 甘工工派州的夕田选择	SUNAT.3 列工 L 坦 白 廷 広 与 众 惊 如
232	人人机自迫应也含控制
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ui Vo	liongou Linix of Science and
	Jiangsu Univ. UI Science and
ï Wang	
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	Jiangsu Univ. UI Science and
Ningloi Zhana	lionany Links of Science and
anglei ∠nang	Jiangsu Univ. of Science and
	lienneu Liete of Oct
u vvang	Jiangsu Univ. of Science and
0.54.44.00	I echnology
3:54-14:02	SunA1.4
	行于写容错控制
268 <i>小型无人直升机故障危</i>	
268 小型无人直升机故障在 (iaolong Zhang	Taiyuan Univ. of Technology
1268 小型无人直升机故障在 Kiaolong Zhang Rong Li	Taiyuan Univ. of Technology Taiyuan Univ. of Technology
1 <mark>268</mark> 小型无人直升机故障信 Kiaolong Zhang Rong Li Saowei Yan	Taiyuan Univ. of Technology Taiyuan Univ. of Technology Taiyuan Univ. of Technology
268 小型无人直升机故障症 (iaolong Zhang Rong Li Jaowei Yan Shuyi Xiao	Taiyuan Univ. of Technology Taiyuan Univ. of Technology Taiyuan Univ. of Technology Taiyuan Univ. of Technology

Based on ETM and APT	
Bolin Wang	Hohai Univ
Amlakyalew Worku	Hohai Univ
Almebo	
Dawei Wu	Hohai Univ
Xiaoqi Huang	Hohai Univ
14:10-14:18	SunA1.6
412 多约束下四旋翼无人机多	<i>季态跟踪复合学习动态面控制</i>
Longsheng Chen	Nanchang Hangkong Univ
Tongshuai Li	Nanchang Hangkong Univ
Yuxiang Wang	Nanchang Hangkong Univ
Haitao Xu	Nanchang Hangkong Univ
14:18-14:26	SunA1.7
1562 基于事件触发灰狼优化	算法的 QUAV 三维航迹规划
Dongyan Qin	Hefei Univ
Xiaohui Yan	Hefei Univ
Guiwei Shao	Hefei Univ
Yuwu Yao	Hefei Univ
14:26-14:34	SunA1.8
1609 基于干扰观测器的四旋	翼无人机自适应耦合容错控制
Yaobin Sun	Shandong Univ. of Science an
Yong Ren	Technolog
	Shandong Univ. of Science an
	Technolog
14:34-14:42	SunA1.9
477 具有时变状态约束的无人	直升机抗饱和跟踪控制设计
Kun Van	Xi'an Technology Univ
	Xi'an Technology Univ
Song Goo	Xi'an Technology Univ
Kai Cao	Xi'an Technology Univ
Ming Wan	Nanjing Univ. of Aeronautics an
wing wan	Astronautic
14:42-14:50	SunA1.10
526 Adaptive Event-Triggere	d based Finite-time Robust
Trajectory Control for QUAV	with Input Saturation
Anxin Wu	State-Owned Machinery Factory i
	Wuh
Chunlei Bu	Anhui Univ. of Technolog
Rongsheng Xia	Anhui Univ. of Technolog
Shuyi Shao	Nanjing Univ. of Aeronautics an
	Astronautic
14:50-14:58	SunA1.11
537 Finite-Horizon Robust C	ptimal Trajectory Tracking Contro
	ints
for QUAV with Input Constra	
for QUAV with Input Constra Jicai Xu	Anhui Univ. of Technolog
for QUAV with Input Constra Jicai Xu Chunlei Bu	Anhui Univ. of Technolog Anhui Univ. of Technolog
for QUAV with Input Constra Jicai Xu Chunlei Bu Rongsheng Xia	Anhui Univ. of Technolog Anhui Univ. of Technolog Anhui Univ. of Technolog
for QUAV with Input Constra Jicai Xu Chunlei Bu Rongsheng Xia 14:58-15:06	Anhui Univ. of Technolog Anhui Univ. of Technolog Anhui Univ. of Technolog SunA1.12
for QUAV with Input Constra Jicai Xu Chunlei Bu Rongsheng Xia 14:58-15:06 461 Design and Implementai	Anhui Univ. of Technolog Anhui Univ. of Technolog Anhui Univ. of Technolog SunA1.12
for QUAV with Input Constra Jicai Xu Chunlei Bu Rongsheng Xia 14:58-15:06 461 Design and Implementa Suspension System in Hinh-	Anhui Univ. of Technolog Anhui Univ. of Technolog Anhui Univ. of Technolog SunA1.12 tion of Control Strategy for speed Flight Maglev Vehicle
for QUAV with Input Constra Jicai Xu Chunlei Bu Rongsheng Xia 14:58-15:06 461 Design and Implementa Suspension System in High- Mingda Zhai	Anhui Univ. of Technolog Anhui Univ. of Technolog Anhui Univ. of Technolog SunA1.12 tion of Control Strategy for speed Flight Maglev Vehicle Minoda Zhz
for QUAV with Input Constra Jicai Xu Chunlei Bu Rongsheng Xia 14:58-15:06 461 Design and Implementa Suspension System in High- Mingda Zhai Pinglang Yi	Anhui Univ. of Technolog Anhui Univ. of Technolog Anhui Univ. of Technolog SunA1.12 tion of Control Strategy for speed Flight Maglev Vehicle Mingda Zha Pinolano N

15:06-15:14	SunA1.13	
866 Hierarchical Deep Reinforcement Learning for Path		
Planning with Collision Avoidance of the Mobile Robot in		
Complex Dynamic Enviro	onments	
Yuanyuan Gao	Southeast Univ.	
Qingling Wang	Southeast Univ.	
15:14 -15:22	SunA1.14	
1602 抵近无人机运动信息	息分布式一致性融合估计方法	
Wei Li	Yunnan Police College	
Jie Liu	Yunnan Police College	
Chengcai Meng	Yunnan Public Security Police	
0 0	Comprehensive Training Base	
15:20-15:30	SunA1 15	
154 Research on the con	ordinated control method of binedal	
reconfigurable robot for o	nait balance task	
Meng Qu		
Vuanchun Li	Changehun Univ. of Technology	
	Changehun Univ. of Technology	
	Changehun Univ. of Technology	
	Changenun Univ. of Technology	
Bo Dong	Changchun Univ. of Technology	
Bing Ma	Changchun Univ. of Technology	
SunA2	3rd Floor Meeting Room 306	
Smart GNC	三层会议室 306	
Chairs: Jian Chen	China Agricultural Univ.	
Hang Liu	Beihang Univ.	
13:30-13:38	SunA2.1	
13:30-13:38 126 Verifying the Applica	SunA2.1 tion of Embodied Intelligence Control	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under	
13:30-13:38 126 Verifying the Applica Technology in Inverted P "CONTROL" Teaching M	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode	
13:30-13:38 126 Verifying the Applica Technology in Inverted P "CONTROL" Teaching M Jian Chen	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ.	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ.	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ.	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ.	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural	
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13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao Ni Ren 13:38-13:46	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao Ni Ren 13:38-13:46 234 A method of grape cl	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China SunA2.2 Juster target detection and picking	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao Ni Ren 13:38-13:46 234 A method of grape co point location based on in	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China SunA2.2 Iuster target detection and picking mproved YOLOv8	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao Ni Ren 13:38-13:46 234 A method of grape ci point location based on in Huaiyang Liu	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China SunA2.2 Iuster target detection and picking mproved YOLOv8 Soochow Univ.	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao Ni Ren 13:38-13:46 234 A method of grape cl point location based on in Huaiyang Liu Wanfu Liu	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China SunA2.2 Iuster target detection and picking mproved YOLOv8 Soochow Univ.	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao Ni Ren 13:38-13:46 234 A method of grape ca point location based on in Huaiyang Liu Wanfu Liu Wenhao Wang	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China SunA2.2 Iuster target detection and picking mproved YOLOv8 Soochow Univ. Soochow Univ.	
13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao Ni Ren 13:38-13:46 234 A method of grape ca point location based on in Huaiyang Liu Wanfu Liu Wenhao Wang	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China SunA2.2 Iuster target detection and picking mproved YOLOv8 Soochow Univ. Soochow Univ. Chinese Academy of Agricultural Sciences	
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13:30-13:38 126 Verifying the Applica Technology in Inverted Pa "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao Ni Ren 13:38-13:46 234 A method of grape cl point location based on in Huaiyang Liu Wanfu Liu Wenhao Wang Huibin Li	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China SunA2.2 Inster target detection and picking mproved YOLOv8 Soochow Univ. Chinese Academy of Agricultural Sciences Chinese Academy of Agricultural Sciences	
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13:30-13:38 126 Verifying the Applica Technology in Inverted Pri "CONTROL" Teaching M Jian Chen Tao Chen Xinyu Xu Shubo Wang Zichao Zhang Xing Mao Ni Ren 13:38-13:46 234 A method of grape cl point location based on in Huaiyang Liu Wanfu Liu Wenhao Wang Huibin Li Changxing Geng 13:46-13:54	SunA2.1 tion of Embodied Intelligence Control endulum Experiments under ode China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. China Agricultural Univ. Qingdao Univ. Information Science Academy of China Electronics Technology Group Corporation Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China Ministry of Agriculture and Rural Affairs, P. R. China SunA2.2 Iuster target detection and picking mproved YOLOv8 Soochow Univ. Chinese Academy of Agricultural Sciences Chinese Academy of Agricultural Sciences Soochow Univ.	

364 Vehicle Move-Stop Motion Planning for Fruit Picking Robot with Discrete Picking Targets

Yifan Zhang	Beijing Academy of Agriculture and	
	Forestry Sciences	
Yajun Li	Beijing Academy of Agriculture and	
	Forestry Sciences	
Qingchun Feng	Beijing Academy of Agriculture and	
	Forestry Sciences	
13:54-14:02	SunA2.4	
1651 Graph Point Clou	ud Serialization Semantic Segmentation	
and Criterion		
Wenhao Dou	Harbin Institute of Technology	
	(Shenzhen)	
Yang Wang	Harbin Institute of Technology	
	(Shenzhen)	
Shubo Wang	Qingdao Univ.	
14:02-14:10	SunA2.5	
1675 A Dataset Diversi	ty Evaluation Method via	
HighDimensional Featu	re Representation	
	Information Science Academy of	
Zichao Zhang	China Electronics Technology Group	
0	Corporation	
	Information Science Academy of	
Junjie Ma	China Electronics Technology Group	
,	Corporation	
	Information Science Academy of	
Weiyu Ji	China Electronics Technology Group	
	Corporation	
	Information Science Academy of	
Landi Gu	China Electronics Technology Group	
	Corporation	
	Information Science Academy of	
Wei Jiang	China Electronics Technology Group	
	Corporation	
11.10 11.18	Sup42.6	
1711 Improved RRT for	r Mobile Robot Path Planning	
Algorithm	Mobile Robot Fatt Framming	
Yuxiang Hou		
Shubo Wang	Qingdao Univ	
Hewen Zhang	Qingdao Univ	
Shiwen Wang	Qingdao Univ.	
14:18-14:26	SunA2.7	
564 Robust Control Co	onstruction for Zero-sum Games Under	
Event-triggered Scheme		
Hongii Zhuang	Shanghai Jiaotong Univ.	
Junhao Hou	Shanghai Jiaotong Univ.	
Zeyang Zhao	Shanghai Jiaotong Univ.	
Qiang Shen	Shanghai Jiaotong Univ.	
- Shufan Wu	Shanghai Jiaotong Univ.	
14:26-14:34		
1066 On Bumpless Tra	nsfer for Drag-Free Satellites in Mission	
of Gravitational Wave L	Detection	
Chao Xie	Beijing Institute of Technology	
Yuanqing Xia	Beijing Institute of Technology	

	Deijing institute of Teerinology
Xia	Beijing Institute of Technology
	Beijing Institute of Technology

Bing Cui

14:34-14:42	SunA2.9	1527 CAN
1067 Disturbance Rejection	Model Predictive Control for	Camera F
Building Drag-free Steady St	ate	Weilian Zl
Xiongfeng He	Chinese Academy of Science	He Wang
Wei Lu	Chinese Academy of Science	Huazhou
Nuo Xu	Chinese Academy of Science	Wenwu Y
Qixian Zhou	Chinese Academy of Science	15:20-15:
Pengcheng Wang	Chinese Academy of Science	1691 <i>轻量</i>
Yonghe Zhang	Chinese Academy of Science	Xiaodong
14:42-14:50	SunA2.10	Tianyi Tar
1211 Simulation study of a cl	osed-loop actuation circuit for a	Jiang Wu
space inertial sensor		SunA3
Wenlong Song	Northeast Forestry Univ.	Unmanne
Hao Xu	Northeast Forestry Univ.	Chairs: Ju
Chong Mo	Northeast Forestry Univ.	Yor
Zhe Han	Northeast Forestry Univ.	13:30-13:
Shuyang Lin	Northeast Forestry Univ.	1064 Distrib
Qinbo Ma	Northeast Forestry Univ.	agent Syste
Peilong Yu	Northeast Forestry Univ.	Zhengyan
Jiawei Zhang	Northeast Forestry Univ.	Jianan Wa
Ming Hu	Huazhong Univ. of Science and	Junhui Liu
Jianping Huang	Technology	Jiayuan S
	Northeast Forestry Univ.	13:38-13:
14:50-14:58	SunA2.11	1277 A Vis
1235 Low-frequency Noise S	uppression Study for Space	Algorithm B
Inertial Sensor Driver Circuit	Reference Source	Qihan Qiu
Qinbo Ma	Northeastern Forestry Univ.	Xiuyun M
Jianping Huang	Northeastern Forestry Univ.	13:46-13:
Ming Hu	Huazhong Univ. of Science and	1181 Struc
	Technology	Freedom Pa
Hao Xu	Northeastern Forestry Univ.	Boyu She
Zhe Han	Northeastern Forestry Univ.	Chao Zha
Shuyang Lin	Northeastern Forestry Univ.	Shaoping
Peilong Yu	Northeastern Forestry Univ.	Rentong (
Chong Mo	Northeastern Forestry Univ.	
Jiawei Zhang	Northeastern Forestry Univ.	Yunpeng
14:58-15:06	SunA2.12	13:54-14:
1312 Residual Normalized Si	trong Tracking Spacecraft Attitude	1250 Adap
Estimation Based on Variatio	nal Bayes	systems wit
Lanlan Li	Lanlan Li	Yanjie Ch
Pengcheng Wang	Pengcheng Wang	
Zhansheng Duan	Zhansheng Duan	14:02-14:
Donglin Zhang	Donglin Zhang	165 Non-sii
Yonghe Zhang	Yonghe Zhang	A Small Siz
Ming Guo	Ming Guo	Aochen N
15:06-15:14	SunA2.13	Bin Xian
1437 Positive real lemmas fo	r singular fractional order systems	14:10-14:
without equality constraints		1495 基于-
Yihui Zhu	Southeast Univ.	Tong Mei
Rui Chen	Southeast Univ.	Wenlai Ma
Shiqin Xiao	Southeast Univ.	Ke Yu
Dingkai Weng	Southeast Univ.	
Yiheng Wei	Southeast Univ	Wei Hao
15:14 -15:22	SunA2.14	14:18-14:

Camera Fusion Frameworl	k for 3D Object Detection
Weilian Zhu	Southeast Univ.
He Wang	Southeast Univ.
Huazhou Hou	Purple Mountain Laboratories
Wenwu Yu	Southeast Univ.
15:20-15:30	SunA2.15
1691 轻量化低慢小无人机	多目标检测及跟踪方法
Xiaodong Fan	Beihang Univ.
Tianyi Tan	Beihang Univ.
Jiang Wu	Beihang Univ.
SunA3	3rd Floor Meeting Room 307
Unmanned GNC	3 层会议室 307
Chairs: Junhui Liu	Beijing Institute of Technology
Yongbin Zheng N	ational Univ. of Defense Technology
13:30-13:38	SunA3.1
1064 Distributed Adaptive Fo	rmation Shaping Algorithm for Multi-
agent Systems	
Zhengyang Zhou	Beijing Institute of Technology
Jianan Wang	Beijing Institute of Technology
Junhui Liu	Beijing Institute of Technology
Jiayuan Shan	Beijing Institute of Technology
13:38-13:46	SunA3.2
277 A Vision /GNSS/ INS	S Multi-source Relative Navigation
Algorithm Based on Federate	ed UPF
Qihan Qiu	Beijing Institute of Technology
Xiuyun Meng	Beijing Institute of Technology
13:46-13:54	SunA3.3
1181 Structural Design of	a Bionic Jellyfish Multi-Degree-of-
<mark>1181</mark> Structural Design of Freedom Paddling Mechanis	a Bionic Jellyfish Multi-Degree-of- m Driven Underwater Robot
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen	a Bionic Jellyfish Multi-Degree-of- m Driven Underwater Robot Beihang Univ.
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang	a Bionic Jellyfish Multi-Degree-of- m Driven Underwater Robot Beihang Univ. Beihang Univ.
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang	a Bionic Jellyfish Multi-Degree-of- m Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ.
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen	a Bionic Jellyfish Multi-Degree-of- im Driven Underwater Robot Beihang Univ Beihang Univ Beihang Univ Beihang Univ
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao	a Bionic Jellyfish Multi-Degree-of- im Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.
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1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co systems with time-varying di	a Bionic Jellyfish Multi-Degree-of- im Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 ntrol for uncertain strict feedback sturbances
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking consystems with time-varying di Yanjie Chang	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 ntrol for uncertain strict feedback sturbances Hebei Univ. of Economics and
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking cosystems with time-varying dia Yanjie Chang	a Bionic Jellyfish Multi-Degree-of- im Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co systems with time-varying di Yanjie Chang 14:02-14:10	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co. systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Eixed-time	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co. systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Fixed-time A Small Size Unmanned Hel	a Bionic Jellyfish Multi-Degree-of- im Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co. systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Fixed-time A Small Size Unmanned Hell Aochen Ma	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. SunA3.4 Hebei Univ. of Economics and Business SunA3.5
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Fixed-time A Small Size Unmanned Hell Aochen Ma Bin Xian	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5 Terminal Sliding Mode Control For icopter Tianjin Univ Tianjin Univ
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co. systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Fixed-time A Small Size Unmanned Hel Aochen Ma Bin Xian 14:10-14:18	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 ntrol for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5 Terminal Sliding Mode Control For icopter Tianjin Univ Tianjin Univ
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1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co. systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Fixed-time A Small Size Unmanned Hell Aochen Ma Bin Xian 14:10-14:18 1495 基于一致分布式的四級	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5 Terminal Sliding Mode Control For icopter Tianjin Univ. Tianjin Univ. SunA3.6
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Fixed-time A Small Size Unmanned Hell Aochen Ma Bin Xian 14:10-14:18 1495 基于一致分布式的四歲 Tong Mei Wongai Mo	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5 Terminal Sliding Mode Control For icopter Tianjin Univ. Tianjin Univ. SunA3.6 夏无人机自适应容错协同控制 Shandong Univ. of Aeronautics
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co. systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Fixed-time A Small Size Unmanned Hel Aochen Ma Bin Xian 14:10-14:18 1495 基于一致分布式的四級 Tong Mei Wenlai Ma Ko Yu	a Bionic Jellyfish Multi-Degree-of- sm Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5 Terminal Sliding Mode Control For icopter Tianjin Univ. Tianjin Univ. SunA3.6 夏无人机自适应容错协同控制 Shandong Univ. of Aeronautics Shandong Univ. of Aeronautics
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co. systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Fixed-time A Small Size Unmanned Hell Aochen Ma Bin Xian 14:10-14:18 1495 基于一致分布式的四歲 Tong Mei Wenlai Ma Ke Yu	a Bionic Jellyfish Multi-Degree-of- im Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5 Terminal Sliding Mode Control For icopter Tianjin Univ. Tianjin Univ. SunA3.6 I 双天人机自适应容错协同控制 Shandong Univ. of Aeronautics Shandong Univ. of Aeronautics The Flight Automatic Control
1181 Structural Design of Freedom Paddling Mechanis Boyu Shen Chao Zhang Shaoping Wang Rentong Chen Yunpeng Bao 13:54-14:02 1250 Adaptive tracking co. systems with time-varying di Yanjie Chang 14:02-14:10 165 Non-singular Fixed-time A Small Size Unmanned Hel Aochen Ma Bin Xian 14:10-14:18 1495 基于一致分布式的四歲 Yenlai Ma Ke Yu	a Bionic Jellyfish Multi-Degree-of- im Driven Underwater Robot Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.4 Introl for uncertain strict feedback sturbances Hebei Univ. of Economics and Business SunA3.5 Terminal Sliding Mode Control For icopter Tianjin Univ. Tianjin Univ. SunA3.6 環无人机自适应容错协同控制 Shandong Univ. of Aeronautics Shandong Univ. of Aeronautics The Flight Automatic Control Research Institute of AVIC

1673 基于 UGVC 比赛的多功能复合式机器人设计与实现

Haozhe Wu	National Univ. of Defense
	Technology
Zhanyu Cao	National Univ. of Defense
	Technology
Gaoge Liang	National Univ. of Defense
	Technology
Tao Ye	National Univ. of Defense
	Technology
Zerui Li	National Univ. of Defense
	Technology
Xiaohong Xu	National Univ. of Defense
	Technology
14:26-14:34	SunA3.8

1708 A Shared Control Method for Teleoperation of Mobile Robots Based on Bargaining Game and Gaussian Process Ruizhuo Wu National Univ. of Defense Technology Xincheng Xu National Univ. of Defense Technology Xin Xu National Univ. of Defense Technology Haotian Cao National Univ. of Defense Technology Xinxin Yao National Univ. of Defense Technology 14:34-14:42 SunA3.9 1259 Learning-based Terramechanics Mapping in Hilbert Space Shenyang Institute of Xu Liu Automation,CAS Shenyang Institute of Decai Li Automation,CAS Shenyang Institute of Guangyu Zhang Automation,CAS Shenyang Institute of Yuqing He Automation,CAS 14:42-14:50 SunA3.10 495 ADFuse: An Adaptive Fusion Method for Infrared and Visible Images National Univ. of Defense Wanying Xu

tranjing /ta	Technology
Dongyu Vong	National Univ. of Defense
Dongxu Fang	Technology
Vanahin Zhang	National Univ. of Defense
rongoin zheng	Technology
Dong Sup	National Univ. of Defense
Felly Sull	Technology
Shangijan Baj	National Univ. of Defense
Sheriyjian bai	Technology
14:50-14:58	SunA3.11
1145 An Accurate Template Mat	ching Method based on Siamese

Network and Center Point Estimation National Univ. of Defense

Jiangsong Yang	National Univ. of Defense
	Technology

Wanying Xu	National Univ. of Defense
	Technology
Yonabin Zhena	National Univ. of Defense
	Technology
Qiang Ren	National Univ. of Defense
<u> </u>	Technology
hengijan Baj	National Univ. of Defense
	Technology
14:50-15:06	SunA3.12
1404 DOA Estimation Meth	nod for Unmanned Aerial Vehicle
Image Transmission Sources	in Interference Backgrounds
Zhicheng Yao	Rocket Force Univ. of Engineering
Guanhua Zhang	Rocket Force Univ. of Engineering
Haiyang Wang	Rocket Force Univ. of Engineering
Jian Yang	Rocket Force Univ. of Engineering
Zhiliang Fan	Rocket Force Univ. of Engineering
15:06-15:14	SunA3.13
1436 导弹自动驾驶仪设计方	法综述
Xin wei Liang	National Univ. of Defense
All wor Elang	Technology
Guoxi Liu	National Univ. of Defense
	Technology
Wanving Xu	National Univ. of Defense
wanying /ta	Technology
Yuxuan Xie	National Univ. of Defense
	Technology
15:14-15:22	SunA3.14
740 Weather Optimal Statior	Keeping Control for Airship based
740 Weather Optimal Statior on Deep Reinforcement Lear	Neeping Control for Airship based
740 Weather Optimal Statior on Deep Reinforcement Lear Hongyi Wen	NKeeping Control for Airship based ning Beihang Univ.
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740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang	n Keeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ.
740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen	n Keeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.
740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen Ming Zhu	r Keeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.
740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen Ming Zhu 15:22-15:30	r Keeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.15
740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen Ming Zhu 15:22-15:30 1679 基于大语言模型的机械	r Keeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.15 臂规划控制方法
740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen Ming Zhu 15:22-15:30 1679 基于大语言模型的机械 Xingyu Li	r Keeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.15 臂规划控制方法 Beihang Univ.
740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen Ming Zhu 15:22-15:30 1679 基于大语言模型的机械 Xingyu Li Yitong Chen	n Keeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.15 臂规划控制方法 Beihang Univ. Beihang Univ.
740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen Ming Zhu 15:22-15:30 1679 基于大语言模型的机械 Xingyu Li Yitong Chen Chengcai Wang	n Keeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. <i>SunA3.15</i> <i>臂规划控制方法</i> Beihang Univ. Beihang Univ. Beihang Univ.
740 Weather Optimal Station on Deep Reinforcement Lean Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen Ming Zhu 15:22-15:30 1679 基于大语言模型的机械 Xingyu Li Yitong Chen Chengcai Wang Kun Xu	n Keeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. 管規划控制方法 Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.
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740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen Ming Zhu 15:22-15:30 1679 基于大语言模型的机械 Xingyu Li Yitong Chen Chengcai Wang Kun Xu Xilun Ding SunA4	A Keeping Control for Airship based ning Beihang Univ. Beihang Univ.
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740 Weather Optimal Station on Deep Reinforcement Lear Hongyi Wen Zewei Zheng Yifei Zhang Tian Chen Ming Zhu 15:22-15:30 1679 基于大语言模型的机械 Xingyu Li Yitong Chen Chengcai Wang Kun Xu Xilun Ding SunA4 Positioning GNC Chairs: Xiang Yu Housheng Su 13:30-13:38	Reeping Control for Airship based ning Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ. SunA3.15 臂规划控制方法 Beihang Univ. Beihang Univ.
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Lilion Zhong	National Univ. of Defense
Lilian Zhang	Technology
13:38-13:46	SunA4.2
468 A novel Calibration	method for microarray polarized
navigation sensor	
Yunxiao Lv	National Univ. of Defense Technology
Chen Fan	National Univ. of Defense Technology
Tongwei Ma	National Univ. of Defense Technology
13:46-13:54	SunA4.3
469 Rapid orientation algo	rithm by zenith region selection
Wenzhou Zhou	National Univ. of Defense Technology
Chen Fan	National Univ. of Defense Technology
Lianwei Teng	National Univ. of Defense Technology
Lilian Zhang	National Univ. of Defense Technology
Xiaofeng He	National Univ. of Defense Technology
Xiaoping Hu	National Univ. of Defense Technology
13:54-14:02	SunA4.4
471 Orientation Error M	odeling and Analysis of Microarray
Polarized Light Compass	
Chunrui Mei	National Univ. of Defense Technology
Xiaofeng He	National Univ. of Defense Technology
Chen Fan	National Univ. of Defense Technology
14:02-14:10	SunA4.5
689 A System-Level Cal	ibration Method with Gvroscope G-
Sensitivity for MEMS-IMU	
Chang longkang	National Univ. of Defense Technology
Wu wengi	National Univ. of Defense Technology
Gu yuanxin	National Univ. of Defense Technology
Cui jiarui	National Univ. of Defense Technology
, Miao tonggiao	National Univ. of Defense Technology
14:10-14:18	SunA4.6
1117 High Accuracy MEMS	S Gyrocompass with Honeycomb Disk
Resonator Gyroscope	
Quanzhu Meng	National Univ. of Defense Technology
Shuivang Liang	National Univ. of Defense Technology
Qinsona Li	National Univ. of Defense Technology
Tonggiao Miao	National Univ. of Defense Technology
Dingbang Xiao	National Univ. of Defense Technology
Xuezhong Wu	National Univ. of Defense Technology
14.18-14.26	SunA4 7
249 基于 AFSTUKF 的 S	INS/GPS/偏振/地磁组合导航系统空中
对准方法	
Chenvi Ji	Yangzhou Univ.
Yang Yi	Yangzhou Univ
Songvin Cao	Yangzhou Univ
14.26-14.34	SunA4.8
489 Constrained Disturba	ance Observer-based Control Using
Robust Command Govern	or for Aircraft Application
Sibong Li	Boibang Univ
	Beihang Univ.
14.24 14.42	
14.34-14.42	SunA4.9
ovi Anii-uisiurbance contr	or or air-preatring hypersonic venicle:
a zero-surri unierential gar Zoiun Zhana	ne approach
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1285 Distributed interval observer design for switched systems Tingting Chang Nanjing Univ. of Posts and Telecommunications Xiaoling Wang East China Univ. of Posts and Telecommunications Wen Yang East China Univ. of Science and Technology Housheng Su Technology 15:06-15:14 SunA4.13 1407 随机切换和不确定目标下非线性多智能体系统的一致性跟 FripIong Sun Sichuan Univ. Xinsong Yang Sichuan Univ. Yaping Sun Sichuan Univ. Xinsong Yang Sichuan Univ. Housheng Su Technology Housheng Su Huazhong Univ. of Science and Housheng Su Housheng Su Technology 15:14-15:22 SunA4.14 1424 Attitude and Gyro Bias Estimation Based on A Parameter Estimation-Based Approach Huazhong Univ. of Science and Technology Miaomiao Wang Huazhong Univ. of Science and Technology Technology 15:22-15:30 SunA4.15 5908 非对准涡旋光束探测下的旋翼叶片数量提取方法 908 非对准涡旋光束揉测下的旋翼叶片数量提取方法 Ruoyu Tang Space Engineering Univ. Yaohui Fan Space Engineering Univ. Yuin Liang Space Engineering Univ. Yutian Liang Space Engineering Univ. Yuan Ren<	14:58-15:06	SunA4.12
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Xiaoling Wang Telecommunications Xiaoling Wang East China Univ. of Posts and Telecommunications Wen Yang East China Univ. of Science and Technology Housheng Su Technology 15:06-15:14 SunA4.13 1407 Butl 切換和不确定目标下非线性多智能体系统的一致性跟 膝问题研究 Yaping Sun Sichuan Univ. Xinsong Yang Sichuan Univ. Yaping Sun Sichuan Univ. Xinsong Yang Sichuan Univ. Housheng Su Huazhong Univ. of Science and Technology 15:14-15:22 SunA4.14 1424 Attitude and Gyro Bias Estimation Based on A Parameter Estimation-Based Approach Huazhong Univ. of Science and Technology Miaomiao Wang Huazhong Univ. of Science and Technology Housheng Su Huazhong Univ. of Science and Technology Housheng Su Technology Huazhong Univ. of Science and Technology SunA4.14 1424 Attitude and Gyro Bias Estimation Based on A Parameter Estimation-Based Approach Miaomiao Wang Huazhong Univ. of Science and Technology Housheng Su Technology J15:22-15:30 SunA4.15 908 非对准涡旋光索軟m Space Engineering	Tingting Chang	Nanjing Univ. of Posts and
Xiaoling WangNanjing Univ. of Posts and TelecommunicationsWen YangEast China Univ. of Science and TechnologyHousheng SuTechnology15:06-15:14SunA4.131407 随机切换和不确定目标下非线性多智能体系统的一致性跟 膝问题研究Sichuan Univ.Yaping SunSichuan Univ.Xinsong YangSichuan Univ.Housheng SuTechnology15:14-15:22SunA4.141424 Attitude and Gyro Bias Estimation Based on A ParameterEstimation-Based ApproachTechnologyMiaomiao WangHuazhong Univ. of Science and TechnologyHousheng SuTechnology15:22-15:30SunA4.14908 非对准涡旋光束探测下的旋翼叶片数量提取方法Ruoyu TangSpace Engineering Univ.Yaping Univ.Yaping LiuSpace Engineering Univ.Yutian LiangSpace Engineering Univ.Yutian LiSpace Engineering Univ.Yutian LiSpace Engineering Univ.Xiuqian LiSpace Engineering Univ.Yutan LiSpace Engineering Univ. <t< td=""><td>5. 5 5</td><td>Telecommunications</td></t<>	5. 5 5	Telecommunications
Wen Yang East China Univ. of Science and Technology Housheng Su Technology Housheng Su Technology 15:06-15:14 SunA4.13 1407 随机切换和不确定目标下非线性多智能体系统的一致性跟 踪问题研究 Yaping Sun Sichuan Univ. Xinsong Yang Sichuan Univ. Housheng Su Technology Housheng Su Technology Housheng Su Sichuan Univ. Housheng Su Sichuan Univ. Housheng Su Technology 15:14-15:22 SunA4.14 1424 Attitude and Gyro Bias Estimation Based on A Parameter Estimation-Based Approach Miaomiao Wang Huazhong Univ. of Science and Technology Housheng Su Technology Jigang Zeng Huazhong Univ. of Science and Zhigang Zeng Space Engineering Univ. <td>Xiaoling Wang</td> <td>Nanjing Univ. of Posts and</td>	Xiaoling Wang	Nanjing Univ. of Posts and
Wen YangEast China Univ. of Science and Technology Huazhong Univ. of Science and TechnologyHousheng SuTechnology15:06-15:14SunA4.131407 随机切换和不确定目标下非线性多智能体系统的一致性跟 路问题研究Sichuan Univ.Yaping SunSichuan Univ.Xinsong YangSichuan Univ.Housheng SuHuazhong Univ. of Science and Technology15:14-15:22SunA4.141424 Attitude and Gyro Bias Estimation Based on A ParameterEstimation-Based ApproachHuazhong Univ. of Science and TechnologyMiaomiao WangHuazhong Univ. of Science and TechnologyHousheng SuTechnology15:22-15:30SunA4.15908 非对准涡旋光束掠测下的旋翼叶片数量提取方法 Ruoyu TangSpace Engineering Univ. Yaohui FanYaohui FanSpace Engineering Univ. Space Engineering Univ. Yutian LiangYaohui FanSpace Engineering Univ. Space Engineering Univ. Yuan Ren Xiuqian LiSunA53rd Floor Meeting Room 310	0 0	Telecommunications
Housheng Su Technology Huazhong Univ. of Science and Technology 15:06-15:14 SunA4.13 1407 随机切换和不确定目标下非线性多智能体系统的一致性跟 瞬间题研究 SunA4.13 Yaping Sun Sichuan Univ. Xinsong Yang Sichuan Univ. Housheng Su Huazhong Univ. of Science and Housheng Su Housheng Su Huazhong Univ. of Science and Technology 15:14-15:22 SunA4.14 1424 Attitude and Gyro Bias Estimation Based on A Parameter Estimation-Based Approach Technology Miaomiao Wang Huazhong Univ. of Science and Technology Housheng Su Huazhong Univ. of Science and Technology Zhigang Zeng Technology Zhigang Zeng Technology 15:22-15:30 SunA4.15 908 非对准涡旋光束探测下的旋翼叶片数量提取方法 Ruoyu Tang Space Engineering Univ. Yaohui Fan Yaohui Fan Space Engineering Univ. Yutian Liang Space Engineering Univ. Yutian Liang Space Engineering Univ. Yutian Ren Space Engineering Univ. Yuan Ren Space Engineering Univ. Yuan Ren Space Enginee	Wen Yang	East China Univ. of Science and
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15:06-15:14 SUNA4.13 1407 随机切换和不确定目标下非线性多智能体系统的一致性跟踪问题研究 Yaping Sun Sichuan Univ. Yaping Sun Sichuan Univ. Huazhong Univ. of Science and Housheng Su Huazhong Univ. of Science and Technology 15:14-15:22 SunA4.14 1424 Attitude and Gyro Bias Estimation Based on A Parameter Estimation-Based Approach Miaomiao Wang Huazhong Univ. of Science and Technology Housheng Su Fechnology Housheng Su SunA4.15 908 非对准涡旋光束探测下的旋翼叶片数量提取方法 Ruoyu Tang Space Engineering Univ. Yutian Liang Yaohui Fan Space Engineering Univ. Yutian Liang Space Engineering Univ. Yutan Ren Space Engineering Univ. Yuan Ren Space Engineering Univ. Yuan Ren Space Engineering Univ. Xiuqian Li Space Engineering Univ.	45.00.45.44	l echnology
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Taping SunSichuan Univ.Xinsong YangSichuan Univ.Housheng SuHuazhong Univ. of Science and Technology15:14-15:22SunA4.141424 Attitude and Gyro Bias Estimation Based on A Parameter Estimation-Based ApproachHuazhong Univ. of Science and TechnologyMiaomiao WangHuazhong Univ. of Science and TechnologyHousheng SuHuazhong Univ. of Science and TechnologyHousheng SuHuazhong Univ. of Science and TechnologyAngen ZengTechnology15:22-15:30SunA4.15908 非对准涡旋光束掠测下的旋翼叶片数量提取方法 Ruoyu TangSpace Engineering Univ. Yaohui FanYaohui FanSpace Engineering Univ. Space Engineering Univ. Tong LiuYutian LiangSpace Engineering Univ. Space Engineering Univ. Yuan RenSunA53rd Floor Meeting Room 310	<i>际问题训九</i> Vaning Sun	Sichuan Univ
Kinsburg FungHuazhong Univ. of Science and TechnologyHousheng SuHuazhong Univ. of Science and Technology15:14-15:22SunA4.141424 Attitude and Gyro Bias Estimation Based on A ParameterEstimation-Based ApproachMiaomiao WangHuazhong Univ. of Science and TechnologyHousheng SuHuazhong Univ. of Science and TechnologyHousheng SuHuazhong Univ. of Science and TechnologyZhigang ZengTechnology15:22-15:30SunA4.15908 非对准涡旋光束探测下的旋翼叶片数量提取方法Ruoyu TangSpace Engineering Univ. Yaohui FanYaohui FanSpace Engineering Univ. Space Engineering Univ. Tong LiuYutian LiangSpace Engineering Univ. Space Engineering Univ. Yuan RenSunA53rd Floor Meeting Room 310	Xinsong Yang	Sichuan Univ.
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Iteration 15:14-15:22 SunA4.14 1424 Attitude and Gyro Bias Estimation Based on A Parameter Estimation-Based Approach Miaomiao Wang Huazhong Univ. of Science and Technology Housheng Su Huazhong Univ. of Science and Technology Zhigang Zeng Huazhong Univ. of Science and Technology 15:22-15:30 SunA4.15 908 非对准涡旋光束探测下的旋翼叶片数量提取方法 Ruoyu Tang Space Engineering Univ. Yaohui Fan Space Engineering Univ. Yutian Liang Space Engineering Univ. Zhengliang Liu Space Engineering Univ. Yuan Ren Space Engineering Univ. Xiuqian Li Space Engineering Univ. SunA5 3rd Floor Meeting Room 310	Housheng Su	
1424 Attitude and Gyro Bias Estimation Based on A Parameter Estimation-Based Approach Miaomiao Wang Huazhong Univ. of Science and Technology Housheng Su Huazhong Univ. of Science and Technology Zhigang Zeng Huazhong Univ. of Science and Technology 15:22-15:30 SunA4.15 908 非对准涡旋光束探测下的旋翼叶片数量提取方法 Ruoyu Tang Yaohui Fan Space Engineering Univ. Yutian Liang Space Engineering Univ. Yutan Ren Space Engineering Univ. Yuan Ren Space Engineering Univ. Xiuqian Li Space Engineering Univ. SunA5 3rd Floor Meeting Room 310	15:14-15:22	SunA4 14
Estimation-Based Approach Huazhong Univ. of Science and Technology Miaomiao Wang Huazhong Univ. of Science and Technology Housheng Su Huazhong Univ. of Science and Technology Zhigang Zeng Huazhong Univ. of Science and Technology 15:22-15:30 SunA4.15 908 非对准涡旋光束掠测下的旋翼叶片数量提取方法 Ruoyu Tang Ruoyu Tang Space Engineering Univ. Yaohui Fan Space Engineering Univ. Yutian Liang Space Engineering Univ. Zhengliang Liu Space Engineering Univ. Yuan Ren Space Engineering Univ. Xiuqian Li Space Engineering Univ. SunA5 3rd Floor Meeting Room 310	1424 Attitude and Gyro Bia	s Estimation Based on A Parameter
Miaomiao Wang Huazhong Univ. of Science and Technology Housheng Su Huazhong Univ. of Science and Technology Housheng Su Huazhong Univ. of Science and Technology Zhigang Zeng Huazhong Univ. of Science and Technology 15:22-15:30 SunA4.15 908 非对准涡旋光束掠测下的旋翼叶片数量提取方法 Ruoyu Tang Space Engineering Univ. Yaohui Fan Space Engineering Univ. Yutian Liang Space Engineering Univ. Zhengliang Liu Space Engineering Univ. Yuan Ren Space Engineering Univ. Xiuqian Li Space Engineering Univ. SunA5 3rd Floor Meeting Room 310	Estimation-Based Approach	
Miaomiao Wang Technology Housheng Su Huazhong Univ. of Science and Technology Zhigang Zeng Huazhong Univ. of Science and Technology 15:22-15:30 SunA4.15 908 非对准涡旋光束探测下的旋翼叶片数量提取方法 Ruoyu Tang Space Engineering Univ. Yaohui Fan Space Engineering Univ. Yutian Liang Space Engineering Univ. Zhengliang Liu Space Engineering Univ. Yuan Ren Space Engineering Univ. Xiuqian Li Space Engineering Univ. SunA5 3rd Floor Meeting Room 310		Huazhong Univ of Science and
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Housheng SuTechnologyZhigang ZengHuazhong Univ. of Science and Technology15:22-15:30SunA4.15908 非对准涡旋光束探测下的旋翼叶片数量提取方法Ruoyu TangSpace Engineering Univ. Yaohui FanYaohui FanSpace Engineering Univ. Yutian LiangYutian LiangSpace Engineering Univ. Space Engineering Univ. Zhengliang LiuTong LiuSpace Engineering Univ. Space Engineering Univ. Yuan RenSunA53rd Floor Meeting Room 310		Huazhong Univ. of Science and
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Zhigang ZengTechnology15:22-15:30SunA4.15908 非对准涡旋光束探测下的旋翼叶片数量提取方法Ruoyu TangSpace Engineering Univ.Yaohui FanSpace Engineering Univ.Yutian LiangSpace Engineering Univ.Zhengliang LiuSpace Engineering Univ.Tong LiuSpace Engineering Univ.Yuan RenSpace Engineering Univ.Xiuqian LiSpace Engineering Univ.SunA53rd Floor Meeting Room 310		Huazhong Univ. of Science and
15:22-15:30 SunA4.15 908 非对准涡旋光束探测下的旋翼叶片数量提取方法 Ruoyu Tang Space Engineering Univ. Yaohui Fan Space Engineering Univ. Yutian Liang Space Engineering Univ. Zhengliang Liu Space Engineering Univ. Tong Liu Space Engineering Univ. Yuan Ren Space Engineering Univ. Xiuqian Li Space Engineering Univ. SunA5 3rd Floor Meeting Room 310	Zhigang Zeng	Technology
908 非对准涡旋光束探测下的旋翼叶片数量提取方法Ruoyu TangSpace Engineering Univ.Yaohui FanSpace Engineering Univ.Yutian LiangSpace Engineering Univ.Zhengliang LiuSpace Engineering Univ.Tong LiuSpace Engineering Univ.Yuan RenSpace Engineering Univ.Xiuqian LiSpace Engineering Univ.SunA53rd Floor Meeting Room 310	15:22-15:30	SunA4.15
Ruoyu TangSpace Engineering Univ.Yaohui FanSpace Engineering Univ.Yutian LiangSpace Engineering Univ.Zhengliang LiuSpace Engineering Univ.Tong LiuSpace Engineering Univ.Yuan RenSpace Engineering Univ.Xiuqian LiSpace Engineering Univ.SunA53rd Floor Meeting Room 310	908 非对准涡旋光束探测下	的旋翼叶片数量提取方法
Yaohui FanSpace Engineering Univ.Yutian LiangSpace Engineering Univ.Zhengliang LiuSpace Engineering Univ.Tong LiuSpace Engineering Univ.Yuan RenSpace Engineering Univ.Xiuqian LiSpace Engineering Univ.SunA53rd Floor Meeting Room 310	Ruoyu Tang	Space Engineering Univ.
Yutian LiangSpace Engineering Univ.Zhengliang LiuSpace Engineering Univ.Tong LiuSpace Engineering Univ.Yuan RenSpace Engineering Univ.Xiuqian LiSpace Engineering Univ.SunA53rd Floor Meeting Room 310	Yaohui Fan	Space Engineering Univ.
Zhengliang LiuSpace Engineering Univ.Tong LiuSpace Engineering Univ.Yuan RenSpace Engineering Univ.Xiuqian LiSpace Engineering Univ.SunA53rd Floor Meeting Room 310	Yutian Liang	Space Engineering Univ.
Tong LiuSpace Engineering Univ.Yuan RenSpace Engineering Univ.Xiuqian LiSpace Engineering Univ.SunA53rd Floor Meeting Room 310	Zhengliang Liu	Space Engineering Univ.
Yuan Ren Space Engineering Univ. Xiuqian Li Space Engineering Univ. SunA5 3rd Floor Meeting Room 310	Tong Liu	Space Engineering Univ.
Xiuqian LiSpace Engineering Univ.SunA53rd Floor Meeting Room 310	Yuan Ren	Space Engineering Univ.
SunA5 3rd Floor Meeting Room 310	Xiuqian Li	Space Engineering Univ.
	SunA5	3rd Floor Meeting Room 310

Automatic GNC	3 层会议室 310
Chairs: Rui Wang	Civil Aviation University of China
Wenjuan Wang	Hiwing Aviation General Equipment Co
13:30-13:38	SunA5.1
195 Sequence recognitio	on of gesture map action images using
Multi-source heterogene	ous fusion data
Qingji Gao	Civil Aviation University of China
Wenmin Fan	Civil Aviation University of China
Qi Wang	Civil Aviation University of China
13:38-13:346	SunA5.2
261 Fuzzy Fault Tree-Ba	sed Emergency Storage Location Study
under Interruption Scena	
Rui wang	Civil Aviation University of China
Zhikai Zhang	Civil Aviation University of China
Ziqi Liu	Civil Aviation University of China
Hui Sun	Civil Aviation University of China
13:38-13:46	SunA5.3
425 基于禁飞区几何特性	生的轨迹规划算法
Jiahao Ma	Nankai University
Yulong Shi	Nankai University
Mingwei Sun	Nankai University
Zhongxin Liu	Nankai University
Zengqiang Chen	Nankai University
Wenjuan Wang	Hiwing Aviation General
	Equipment Co., Ltd
Hongzhong Ma	Hiwing Aviation General
	Equipment Co., Ltd
13:46-13:54	SunA5.4
547 A novel approach to	o Develop a Space Target Dataset for
Non-Cooperative Pose E	Estimation
Luhua Chen	Academy of Military Sciences
Dan Xiong	Academy of Military Sciences
Wei Han	Academy of Military Sciences
Chaochen Cui	Academy of Military Sciences
Yiyong Huang	Academy of Military Sciences
Yanjie Yang	Academy of Military Sciences
13:54-14:02	SunA5.5
596 In-motion Initial align	nment method based on correntropy Lie
group Bayesian filtering	
Fujun Pei	Beijing University of Technology
Li Peng	Beijing University of Technology
Haoyang Li	Beijing University of Technology
Tiantian Xu	Chinese Academy of Sciences
14:02-14:10	SunA5.6

A Modeling Method for Adaptively Evaluating Flight Effectiveness of Autonomous UAV

Yuan Wang	Harbin Institute of Technology
Benkuan Wang	Harbin Institute of Technology
Datong Liu	Harbin Institute of Technology
\A/	Hiwing Aviation General
vvenjuan wang	Equipment Co., Ltd.
T D	Hiwing Aviation General
Tao Peng	Equipment Co., Ltd.
14:10-14:18	SunA5.7

Fuel-optimal control and robustness optimization methods of hypersonic vehicles in the ascending stage

Yujie Lin	Nanjing University of Aeronautics	
	and Astronautics	
	Nanjing University of Aeronautics	
Yannua Han	and Astronautics	
14:18-14:26	SunA5.8	
898 Densely nested infrare	d small target detection network	
based on coordinate joint cha	nnel attention	
Nengshuang Zhang	Xi'an University of Technology	
Jing Zhang	Xi'an University of Technology	
Huinan Guo	Xi'an University of Technology	
Wuixa Zhang	Xi'an University of Technology	
14:26-14:34	SunA5.9	
1115 Adaptive sliding mode	guidance law for spacecraft based	
on online parameter identifica	tion	
Zijian Wang	Beijing Institute of Electronic	
	System Engineering	
	Beijing Institute of Electronic	
Thu Cao	System Engineering	
7	Beijing Institute of Electronic	
Znenning Sun	System Engineering	
14:34-14:42	SunA5.10	
1325 Collaborative Mission Planning for UAV Swarms Launched		
from Aerial Carriers		
Mingzhou Yuan	Harbin Institute of Technology	
Bo Dong	Harbin Institute of Technology	
Weiran Yao	Harbin Institute of Technology	
14:42-14:50	SunA5.11	
1379 基于混合差分进化-序列	二次规划算法的多操纵面分配	
lunguan Shen	Hiwing Aviation General	
bullquar erion	Equipment Co., Ltd	
	Hiwing Aviation General	
Hongznong Ma	Equipment Co., Ltd	
Monium Man	Hiwing Aviation General	
Wenjuan Wang	Equipment Co., Ltd	
14:58-15:06	SunA5.12	

1520	On	AHM-based	predictive	maintenance	for	air	turbine
starte	r						

Liqian Zhang	Civil Aviation University of China
Xiaoyu Zhang	Civil Aviation University of China
15:06-15:14	SunA5.13
1547 Bridging Field Investigati	on and Sentinel 2 Satellite Image
with UAV Remote Sensing for	Yield Inversion of Chinese pepper
Yanan Wu	China Agricultural University
Ving Wang	China Meteorological
	Administration
Jie Deng	China Agricultural University
Yangguang Li	China Agricultural University
Rundong Zhang	China Agricultural University
15:14-15:22	SunA5.14
1581 Fault Knowledge Graph	for QUAV construction Based on
Qwen Large Model	
Zhuolun Li	Huazhong University of Science
	and Technology
Shaoiun Liang	Huazhong University of Science
, ,	and Technology
Yi Yang	Army Engineering University
Chengjie Xu	Hunan University of Technology
Ving Zhang	Huazhong University of Science
	and Technology
15:22-15:30	SunA5.15
1723 Improved YOLOv8s Alg	gorithm for Object Detection in
Airfield Area	
Guochen Niu	Civil Aviation University of China
Hongcheng Zhou	Civil Aviation University of China
SunA6	3rd Floor Meeting Room 311
Cognition GNC	三层会议室 311
Chairs: Bin Lin	Dalian Maritime University
Tieshan Li	University of Electronic Science
	and Technology of China
13:30-13:38	SunA6.1
330 Local-Perception based	Dynamical Task Allocation for
Distributed UAV Cluster	
Hanyu Qian	Northwestern Polytechnical
	University
Bing Xiao	Northwestern Polytechnical
	University
Zhenshuai Jia	Northwestern Polytechnical
	University
Wenije Guo	Northwestern Polytechnical
	University
13:38-13:46	SunA6.2

AVIC Chengdu Aircraft Design Tianxu Li and Research Institute AVIC Chengdu Aircraft Design Bo Ma and Research Institute AVIC Chengdu Aircraft Design Hao Wei and Research Institute Rui Wang AVIC Chengdu Aircraft Design and Research Institute 13:46-13:54 SunA6.3 718 Online Camera-IMU Extrinsic Calibration Using Lie Group Filter for Monocular VINS Yongzheng Lv Beijing University of Technology

682 无人机自主导航视觉惯性融合 SLAM 方法

Fujun PeiBeijing University of TechnologyHaoyang LiBeijing University of TechnologyTiantian XuChinese Academy of Sciences13:54-14:02SunA6.4

963 Design and Implementation of a GPS/BDS Software Receiver Based on SIMD Acceleration

lianvong Li	Beijing Information Science and
	Technology University
lunfong Eon	Beijing Information Science and
Julliang Fall	Technology University
Vofong Li	Beijing Information Science and
	Technology University
V: Ii	Beijing Information Science and
YIJI	Technology University
Viechin V.	Beijing Information Science and
	Technology University
	Beijing Information Science and
Sixing Zhang	Technology University

14:02-14:10 1033 多无人机协同跟踪地面目标制导律设计

Chuanian Lin	AVIC Chengdu Aircraft Design
	and Research Institute
Changgang Tao	AVIC Chengdu Aircraft Design
Chenggang lao	and Research Institute
Vuiio Tio	AVIC Chengdu Aircraft Design
	and Research Institute
Tionijos Liena	AVIC Chengdu Aircraft Design
hanjiao Liang	and Research Institute
14:10-14:18	SunA6.6

SunA6.5

1298 A neural artificial network model for Flush Air Data Sensing System of a flying-wing aircraft

Saihu Pu	AVIC Chengdu Aircraft Design
	and Research Institute
Non Zhu	AVIC Chengdu Aircraft Design
Nall Zilu	and Research Institute
Doming Dong	AVIC Chengdu Aircraft Design
Deming Deng	and Research Institute
	AVIC Chengdu Aircraft Design
Guarijiang Guo	and Research Institute
14:18-14:26	SunA6.7
1741 Reinforcement Lea	rning-Based Optimized Control for
Nonstrict-Feedback Nonline	ear Multiagent Systems
Yuanbo Su	Dalian Maritime University
Qizheng Zhou	Dalian Maritime University
Renhai Yu Dalian Maritime Uni	
Qihe Shan	Dalian Maritime University
-	University of Electronic Science
Lieshan Li	and Technology of China
14:26-14:34	SunA6.8
1743 Adaptive Formation	-containment Control for Nonlinear
Unmanned Surface Vehicle	es with General Noise
Peiyun Ye	Dalian Maritime University
Wanyu Tang	Dalian Maritime University

Renhai Yu	Dalian Maritime University
Qihe Shan	Dalian Maritime University
Tieshan Li	University of Electronic Science
	and Technology of China

 14:34-14:42
 SunA6.9

 1744 Fuzzy Finite-Time Consensus Control for Nonlinear Multi-Agent Systems Against Input Delay

Vancheng Van	University of Electronic Science
rancheng ran	and Technology of China
Tieshan Li	University of Electronic Science
	and Technology of China
Yue Long	University of Electronic Science
	and Technology of China
Hanqing Yang	University of Electronic Science
	and Technology of China
14:42-14:50	SunA9.10

1745 Lyapunov Matrix-Based Dynamic Positioning Control for Unmanned Marine Vehicles with Thruster Faults and Time-Delay Xin Yang Dalian Maritime University

Ain rang	Dalian Manume University
Liying Hao	Dalian Maritime University
Tioshan Li	University of Electronic Science
	and Technology of China

14:50-14:58 SunA6.11 1746 Modeling and Uplink Coverage Analysis of Buoy-Assisted Offshore Internet of Things Xu Hu Dalian Maritime University Bin Lin Dalian Maritime University 14:58-15:06 SunA6.12 1747 Hypergraph Modeling for UAV-assisted Offshore Communication Networks Shuang Qi Dalian Maritime University Bin Lin Dalian Maritime University 15:06-15:14 SunA6.13 1748 Resource and Trajectory Optimization for UAV-assisted Maritime Internet of Things Chaoyue Zhang Dalian Maritime University Bin Lin Dalian Maritime University 15:14-15:22 SunA6.14 1749 A Maximum Flow Routing Algorithm for Multi-Unmanned Surface Vessel Networks Haocheng Wang Dalian Maritime University Bin Lin Dalian Maritime University 15:22-15:30 SunA6.15 1750 Toward Maritime End-to-End Autoencoder Communication Systems Using a DenseNet-Based Learning Framework Xiaoling Han Dalian Maritime University Bin Lin Dalian Maritime University SunA7 3rd Floo	Yang Xiao	The University of Alabama
1746 Modeling and Uplink Coverage Analysis of Buoy-Assisted Offshore Internet of Things Xu Hu Dalian Maritime University Bin Lin Dalian Maritime University 14:58-15:06 SunA6.12 1747 Hypergraph Modeling for UAV-assisted Offshore Communication Networks Shuang Qi Dalian Maritime University Bin Lin Dalian Maritime University 15:06-15:14 SunA6.13 1748 Resource and Trajectory Optimization for UAV-assisted Maritime Internet of Things Chaoyue Zhang Dalian Maritime University Bin Lin Dalian Maritime University 15:14-15:22 SunA6.14 1749 A Maximum Flow Routing Algorithm for Multi-Unmanned Surface Vessel Networks Haocheng Wang Dalian Maritime University Bin Lin Dalian Maritime University Xiaoling Han Dalian Maritime University 15:22-15:30 SunA6.15 1750 Toward Maritime End-to-End Autoencoder Communication Systems Using a DenseNet-Based Learning Framework Xiaoling Han Dalian Maritime University Bin Lin Dalian Maritime University SunA7 3rd Floo	14:50-14:58	SunA6.11
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13:30-13:38 SunA7.1 418 How to measure the effect of training-data sample size on image classification algorithms based on deep learning Jun He National University of Defense Jun He Technology Ruigang Fu Technology Guoyan Wang Technology Dawei Lu Technology 13:38-13:46 SunA7.2	Yang Yuan	Beihang University
418 How to measure the effect of training-data sample size on image classification algorithms based on deep learning Jun He National University of Defense Jun He Technology Ruigang Fu National University of Defense Guoyan Wang National University of Defense Dawei Lu Technology 13:38-13:46 SunA7.2	13:30-13:38	SunA7.1
image classification algorithms based on deep learning Jun He National University of Defense Jun He Technology Ruigang Fu National University of Defense Guoyan Wang National University of Defense Dawei Lu Technology 13:38-13:46 SunA7.2	418 How to measure the effect of	f training-data sample size on
Jun He Technology Ruigang Fu Technology Guoyan Wang Technology Dawei Lu Technology 13:38-13:46 National University of Defense Stational University of Defense Technology National University of Defense Technology SunA7.2	image classification algorithms ba	sed on deep learning
Technology National University of Defense Technology Guoyan Wang Dawei Lu Technology National University of Defense Technology National University of Defense Technology National University of Defense SunA7.2	Jun He	National University of Defense
Ruigang Fu National University of Defense Technology Guoyan Wang Technology Dawei Lu National University of Defense Dawei Lu Technology 13:38-13:46 SunA7.2		Technology
Ruigalig Fu Technology National University of Defense Guoyan Wang Dawei Lu Dawei Lu 13:38-13:46 SunA7.2	Buigong Eu	National University of Defense
Guoyan Wang Dawei Lu 13:38-13:46 National University of Defense Technology SunA7.2	Ruigang Lu	Technology
Guoyan Wang Technology National University of Defense Dawei Lu Technology 13:38-13:46 SunA7.2	0	National University of Defense
Dawei Lu Technology 13:38-13:46 SunA7.2	Guoyan wang	Technology
Dawei Lu 		National University of Defense
13:38-13:46 SunA7.2	Dawei Lu	Technology
	13:38-13:46	SunA7.2

463 Saddle-Point Strategy in Spacecraft Pursuit-Evasion Game

with Relative Fuel Consumption Consideration

	National University of Defense	
Yanwei Zhu	Technology	
	National University of Defense	
Chengming Zhang	Technology	
	National University of Defense	
Leping Yang	Technology	
13:46-13:54	SunA7.3	
467 Global Static Path Planning	g for Unmanned Surface Vehicle	
Based on Hierarchical Deep Re	inforcement Learning	
Zhiyang Bao	Dalian Maritime University	
Yunsheng Fan	Dalian Maritime University	
Zhe Sun	Dalian Maritime University	
13:54-14:02	SunA7.4	
561 An Improved Method for C	Cislunar Space DRO Calculation	
Based on Differential Correction	n	
Yujie Chen	National University of Defense	
	Technology	
Vonusi Zhu	National University of Defense	
ranwei znu	Technology	
	National University of Defense	
Meichen Chan	Technology	
	National University of Defense	
Chenyuan Qiao	Technology	
	National University of Defense	
Haipeng Qiu	Technology	
14:02-14:10	SunA7.5	
711 地月空间航天器 GNSS 导航技术研究综述		
	National University of Defense	
Fu Yuan	Technology	
	National University of Defense	
Guanwei He	Technology	
14:10-14:18	SunA7.6	
719 Trajectory Optimization for	Bearing-Only Target Localization	
Based on Observability Enhanc	ement	
Jicheng Peng	Southeast University	
Kelin Lu	Southeast University	
Qianshuai Wang	Southeast University	
14:18-14:26	SunA7.7	
721 基于高阶 ANCF 梁单元的结	细长结构形状感知	
Maoqi Wu	Dalian University of Technology	
Shujun Tan	Dalian University of Technology	
14:26-14:34	SunA7.8	
836 Optimal incentives for the e	volution of collective cooperation	

in gaming environments

University of Electronic Science Xiaojie Chen and Technology of China 14:34-14:42 SunA7.9 842 基于深度自编码器及图网络的航迹关联研究 Jingqi Xu Fudan University Jun Yao Fudan University Rong Fan Fudan University Jianliang Ai Fudan University Yiqun Dong Fudan University 14:42-14:50 SunA7.10 872 Kalman Filter-based PDR/GNSS Pedestrian Integration Navigation Method with Measurement Augmentation Shengying Li Southeast University Qian Meng Southeast University Yingying Jiang Southeast University Chang Su Southeast University Southeast University Junjie Liu Weiwei Lu Southeast University Zuliang Shen Southeast University 14:50-14:58 SunA7.11 912 基于LQR 的指数衰减跟踪控制器 National University of Defense Tianya Liu Technology National University of Defense Peng Li Technology National University of Defense Chi Peng Technology 14:58-15:06 SunA7.12 1276 几何能观性分析方法及其在无人机目标定位系统中的应用 Qianshuai Wang Southeast University Kelin Lu Southeast University Southeast University Jicheng Peng 15:06-15:14 SunA7.13 1358 Knowledge Distillation for Lightweight Feature Extraction in Learning-Based Visual SLAM National University of Defense Guixian Li Technology National University of Defense Lilian Zhang Technology National University of Defense Hao Qu Technology National University of Defense Changhao Chen Technology SunA7.14 15:14-15:22

1732 基于奖励分享强化学习的无人机集群分布式协同制导

Znongnao wu	Southeast University
Chaoqun Yang	Southeast University
	Eastern Communications Co.,
Wenzhong Cha	Ltd
Xianghui Cao	Southeast University
15:22-15:30	SunA7.15
1742 Watermark-Base	ed Replay Attack Detection for Unmanned
Marine Vehicles	
Guangrui Bian	University of Electronic Science
Guangrui bian	and Technology of China
	University of Electronic Science
Tieshan Li	and Technology of China
	University of Electronic Science
Yue Long	and Technology of China
	University of Electronic Science
Hanqing Yang	and Technology of China
Sun A 9	2rd Elear Masting Boom 242
SunAo Pattern GNC	3 民会议安 313
Chairs: Lizhen Wu	
Aitong Ma	National Univ of Defense Technology
13:30-13:38	SunA8 1
161 Online Adaptive C	Cooperative Search-attack Mission
Planning for UAV Swa	rm in Unknown Environment
	National University of Defense
Hongfu Liu	Technology
Hongfu Liu	Technology
Hongfu Liu Yajing Fu	Technology National University of Defense
Hongfu Liu Yajing Fu	National University of Defense Technology National University of Defense Technology
Hongfu Liu Yajing Fu Libin Chen	Technology National University of Defense Technology National University of Defense
Hongfu Liu Yajing Fu Libin Chen	Technology National University of Defense Technology National University of Defense Technology
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu	Technology National University of Defense Technology National University of Defense Technology National University of Defense
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu 13:38-13:346	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu 13:38-13:346 291 LVDI: Image Fusio	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu <u>13:38-13:346</u> 291 LVDI: Image Fusio Visible Degree of Pola	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu <u>13:38-13:346</u> 291 LVDI: Image Fusio Visible Degree of Pola	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps National University of Defense
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu 13:38-13:346 291 LVDI: Image Fusio Visible Degree of Pola Yuquan Wang	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps National University of Defense Technology
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu 13:38-13:346 291 LVDI: Image Fusio Visible Degree of Pola Yuquan Wang	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps National University of Defense Technology National University of Defense
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu 13:38-13:346 291 LVDI: Image Fusio Visible Degree of Pola Yuquan Wang Hao Tan	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps National University of Defense Technology National University of Defense Technology
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu 13:38-13:346 291 LVDI: Image Fusio Visible Degree of Pola Yuquan Wang Hao Tan	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps National University of Defense Technology National University of Defense Technology National University of Defense
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu 13:38-13:346 291 LVDI: Image Fusio Visible Degree of Pola Yuquan Wang Hao Tan Lu Zhang	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps National University of Defense Technology National University of Defense Technology National University of Defense Technology
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu <u>13:38-13:346</u> 291 LVDI: Image Fusio Visible Degree of Pola Yuquan Wang Hao Tan Lu Zhang	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of rization and Infrared Intensity Maps National University of Defense Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology National University of Defense
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu 13:38-13:346 291 LVDI: Image Fusio Visible Degree of Pola Yuquan Wang Hao Tan Lu Zhang Tongwei Ma	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps National University of Defense Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu <u>13:38-13:346</u> 291 LVDI: Image Fusio Visible Degree of Pola Yuquan Wang Hao Tan Lu Zhang Tongwei Ma	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps National University of Defense Technology National University of Defense
Hongfu Liu Yajing Fu Libin Chen Hongfu Liu 13:38-13:346 291 LVDI: Image Fusic Visible Degree of Pola Yuquan Wang Hao Tan Lu Zhang Tongwei Ma Lilian Zhang	Technology National University of Defense Technology National University of Defense Technology National University of Defense Technology SunA8.2 on Based on Luminance Map of trization and Infrared Intensity Maps National University of Defense Technology National University of Defense Technology

Fu Yuan	National University of Defense
	Tachnology
	Notional Liniuarity of Defer
Guanwei He	
	I echnology
13:46-13:54	SunA8.4
24 高速发形 (打奋利寻拴利	一件化反TT方法研充 National University of Defense
нао не	i echnology
	National University of Defense
Peng Wang	Technology
13:54-14:02	SunA8.5
71 Self-Adaptive Two-Stag	e Framework for Hyperspectral
amounage image Segmenta	National University of Defense
Limei Yao	
	rechnology
Bing Xie	National University of Defense
	Technology
Zhaowei Ma	National University of Defense
	Technology
Ohne Mar	National University of Defense
UNAO XV	Technology
14:02-14:10	SunA8.6
75 Hp Pseudospectral Conv AVs Trajectory Optimization	/ex Programming for Fixed-Wing
·	National University of Defense
Yingqing Peng	Technology
	National University of Defense
Xiang Zhou	Technology
	National University of Defense
Hongbo Zhang	Tachacia University of Deletist
	rechnology
Hongbo Zhang	National University of Defense
	Technology
14:10-14:18	SunA8.7
15 Reinforcement Learnir	ng Based Path Planning for
uaarupea Kobot on Non-con	Inuous Footnoia Terrains
Zhijing Ke	
	Technology
Hongxu Ma	National University of Defense
-	Technology

Xianfei Pan National University of Defense

1647 Multi-platform multi-target continuous tracking method based on feature matching

Xinxi Wang	National University of Defense
	Technology
Guobu Eong	National University of Defense
Guona r eng	Technology
Cuentin Zong	National University of Defense
	Technology

 15:06-15:14
 SunA8.13

 1666 Integrated Technology of Ultraviolet Communication and Positioning for Autonomous Collaboration of Unmanned Clusters

Chubing Ly	National University of Defense
	Technology
Puibang Vu	National University of Defense
Runang Tu	Technology
luliana Cao	National University of Defense
Sullarig Cao	Technology
Wenqi Wu	National University of Defense
	Technology

 15:14-15:22
 SunA8.14

 1677
 Global Integrated Correction Algorithm for Marine

 Rotational Modulation Inertial Navigation Under Normal Vector

 Position Model

Cupplin Zong	National University of Defense
Guanin Zeng	Technology
Cuebu Fong	National University of Defense
Guonu Peng	Technology
Vinyi Wong	National University of Defense
	Technology
15:22-15:30	SunA8.15

1730 基于 Stackelberg 博弈的无人机集群协同围捕策略快 速求解方法

Vue Zhang	National University of Defense
rue znang	Technology
Xianzhong Gao	National University of Defense
	Technology
76	National University of Defense
Zhongxi nou	
	Technology
SunA9	Technology 3rd Floor Meeting Room VIP 01
SunA9 Cross-domain GNC	Technology 3rd Floor Meeting Room VIP 01 三层会议室 VIP 01
SunA9 Cross-domain GNC Chairs: Jin Zhang	Technology 3rd Floor Meeting Room VIP 01 三层会议室 VIP 01 National Univ. of Defense Technology
SunA9 Cross-domain GNC Chairs: Jin Zhang Jianjun Ma	Technology 3rd Floor Meeting Room VIP 01 三层会议室 VIP 01 National Univ. of Defense Technology National Univ. of Defense Technology
SunA9 Cross-domain GNC Chairs: Jin Zhang Jianjun Ma 13:30-13:38	Technology 3rd Floor Meeting Room VIP 01 三层会议室 VIP 01 National Univ. of Defense Technology National Univ. of Defense Technology SunA9.1

190 Modeling of Ship Maneuvering Motion using Multi_x005f output Least-squares Support Vector Regression based on Optimal Mixed Kernel Function

	Technology
Zongyong Chon	National University of Defense
Zongyang Chen	Technology
Zhoming Tu	National University of Defense
	Technology
Chaogun Chu	National University of Defense
Chaoquil Chu	Technology
Changhao Chan	National University of Defense
Changhao Chen	Technology
14:26-14:34	SunA8.9

1278 Autonomous Motion Planning Algorithm for Unmanned Aerial Vehicles in Maze Scenarios

National University of Defense

Xianzhe Cheng	
	Technology
Lei Wang	National University of Defense
	Technology
Weibu Zhao	National University of Defense
	Technology
	National University of Defense
Qingzneng Xu	Technology
	National University of Defense
Zeping He	Technology
14:34-14:42	SunA8.10
1384 Review on robotic grasp	ing pose generation methods
N. 71	National University of Defense
Min Znu	Technology
	National University of Defense
Yi Chen	Technology
	National University of Defense
Junhao Xiao	Technology
14:42-14:50	SunA8.11
1583 Multi-type task assignn	nent algorithm for heterogeneous
UAV cluster based on improve	ed NSGA- II
Yunchong Zhu	National University of Defense
	Technology
Von'gong Liong	National University of Defense
Tangang Liang	Technology
Zavana Via	Xi'an Modern Contro
Zeyang Xie	Technologies Research Institute
	Xi'an Modern Contro
Yingjie Jiao	Technologies Research Institute
Kebo Li	National University of Defense
	Technology
14:58-15:06	SunA8.12
-	

Lichao Jiang	Harbin Engineering University
Xiaobing Shang	Harbin Engineering University
13:38-13:46	SunA9.2
208 Implementation of A M	lodified Temperature Drift Errors
Estimation System for Capaci	tive MEMS Gyros
Bing Qi	Harbin Engineering University
Peng Li	Harbin Engineering University
Menghan Guan	Harbin Engineering University
13:46-13:54	SunA9.3
247 Path planning method for	r marine dynamic target coverage
search	
Zhaozhen Jiang	Naval submarine academy
Wenlong Wang	Naval submarine academy
Xuehai Sun	Naval submarine academy
Qiang Li	Naval submarine academy
Ming Liu	Naval submarine academy
13:54-14:02	SunA9.4
322 Anti-disturbance Position	and Attitude Control of Quadrotor
UAV Based on Sliding-mode I	Method
Jialiang Liu	Harbin Engineering University
Lipeng Wang	Harbin Engineering University
Donghui Yuan.	Harbin Engineering University
Ruotong Cao	Harbin Engineering University
14:02-14:10	SunA9.5
569 Research on 3D obser	vation path planning method for
mobile platforms based on ne	ar-end strategy optimization
Jingjing Znang	
	Chinese Equipment Project
Peng Dong	Management Center of the Naval
	Equipment Department of the
	People's Liberation Army
Dashi Wen	China Ship Development and
	Design Cente
Xinvu Liu	China Ship Development and
	Design Cente
Congrui Yu	Harbin Engineering University
14:10-14:18	SunA9.6
595 A Two-Stage Optimiz	ation Algorithm for Articulated
Automated Guided Vehicle Tra	ajectory Planning in Complex Static
Environments	
Jianlei Gao	China Industrial Control Systems
	Cyber Emergency Response
Zhe Wang	China Industrial Control Systems
3	Cyber Emergency Response

	Cyber Emergency Response		
Yun Li Tianyu Gong	China Industrial Control Systems		
	Cyber Emergency Response		
	China Industrial Control Systems		
	Cyber Emergency Response		
14:18-14:26	SunA9.7		
453 Improved Embedd	ded Cubature Kalman Algorithmin in		
Cooperative Navigation	-		
Xiaozhen Yan	Harbin Institute of Technology at Weihai		
Xiyu Wang	Harbin Institute of Technology at Weihai		
Qinghua Luo	Harbin Institute of Technology at Weihai		
14:26-14:34	SunA9.8		
1006 Adaptive Segmen	ted Homing Trajectory Optimization for		
Pilot-type Parafoil Based	l on Terrain Analysis		
Vulong	National University of Defense		
Fu Long	Technology		
	National University of Defense		
Mengying Zhang	Technology		
	National University of Defense		
Yanbin Lei	Technology		
Lin Yang	National University of Defense		
Ū	Technology		
Fan Yang	National University of Defense		
i an rang	Technology		
11.21 11.12	SupAga		
1008 Planning of	multi-satellite ground-based access		
considering preparation	1008 Planning of multi-satellite ground-based access		
011	time constraint		
	time constraint National University of Defense		
Liyao Wang	time constraint National University of Defense Technology		
Liyao Wang	time constraint National University of Defense Technology National University of Defense		
Liyao Wang Jin Zhang	time constraint National University of Defense Technology National University of Defense Technology		
Liyao Wang Jin Zhang	time constraint National University of Defense Technology National University of Defense Technology		
Liyao Wang Jin Zhang Hongxi Zhou	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery er R-CNN Hothin Epsingering University		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast Xiayu Tian	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery er R-CNN Harbin Engineering University		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast Xiayu Tian Wenbo Xia	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery er R-CNN Harbin Engineering University Beijing Institute of Electronic		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast Xiayu Tian Wenbo Xia	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery er R-CNN Harbin Engineering University Beijing Institute of Electronic System Engineering		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast Xiayu Tian Wenbo Xia Bo Chen	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery er R-CNN Harbin Engineering University Beijing Institute of Electronic System Engineering Harbin Institute of Technology		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast Xiayu Tian Wenbo Xia Bo Chen Dawei Pan	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery er R-CNN Harbin Engineering University Beijing Institute of Electronic System Engineering Harbin Institute of Technology Harbin Engineering University		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast Xiayu Tian Wenbo Xia Bo Chen Dawei Pan 14:50-14:58	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery er R-CNN Harbin Engineering University Beijing Institute of Electronic System Engineering Harbin Institute of Technology Harbin Engineering University SunA9.11		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast Xiayu Tian Wenbo Xia Bo Chen Dawei Pan 14:50-14:58 1329 基于因子图的主法	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 Ext Detection for Static Aerial Imagery er R-CNN Harbin Engineering University Beijing Institute of Electronic System Engineering Harbin Institute of Technology Harbin Engineering University SunA9.11		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast Xiayu Tian Wenbo Xia Bo Chen Dawei Pan 14:50-14:58 1329 基于因子图的主办 Su Wang	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery er R-CNN Harbin Engineering University Beijing Institute of Electronic System Engineering Harbin Institute of Technology Harbin Engineering University SunA9.11 公式 AUV 协同定位算法研究 Dalian Naval Academy		
Liyao Wang Jin Zhang Hongxi Zhou 14:42-14:50 1226 Open World Obje based on Improved Fast Xiayu Tian Wenbo Xia Bo Chen Dawei Pan 14:50-14:58 1329 基于因子图的主办 Su Wang Hongdian Huang	time constraint National University of Defense Technology National University of Defense Technology No.63757Unit SunA9.10 ect Detection for Static Aerial Imagery er R-CNN Harbin Engineering University Beijing Institute of Electronic System Engineering Harbin Institute of Technology Harbin Engineering University SunA9.11 公式 AUV 协同定位算法研究 Dalian Naval Academy Harbin Engineering University		

Hongjin Zhou	Dalian Naval Academy
Qian Li	Harbin Engineering University
14:58-15:06	SunA9.12
1492 Control Barrier	Function-Based Collision Avoidance
Cooperative Guidance Environment	Law for Two-Pursuer Two-Evader
	National University of Defense
	Technology
Xiaolong Liu	National University of Defense
	Technology
Chi Peng	National University of Defense
U	Technology
Lina Geng	National University of Defense
	Technology
Jianjun Ma	National University of Defense
	Technology
15:06-15:14	SunA9.13
1528 Design and Perfor	mance Analysis of IDLC-Based Landing
Control System for Carri	er-Based Aircraft
Bing Wan	Naval Aviation University
Jie Wang	Naval Aviation University
Wei Han	Naval Aviation University
Yong Liang	Naval Aviation University
Xichao Su	Naval Aviation University
15:14-15:22	SunA9.14
1627 Precision Airdrop F Salesman Problem	leading Angle Optimization via Traveling
	National University of Defense
Ziyan Zhang	Technology
Rui Wong	National University of Defense
Rui Wang	Technology
Guobin Zhang	National University of Defense
	Technology
15:22-15:30	SunA9.15
1652 Assessing the Infl	uence of Geomagnetic Disturbances on
GNSS Navigation and P	ositioning Systems
Huaiyi Guan	Naval Engineering University
Jun Fu	Naval Engineering University
Bao Li	Naval Engineering University
Hongwei Wei	Naval Engineering University
Pengfei Jiang	Naval Engineering University
Deying Yu	Naval Engineering University
15:30-15:38	SunA9.16

Xiaokang Yang	Northwestern Polytechnical
	University
Peiru Lyu	Northwestern Polytechnical
	University
	Northwestern Polytechnical
Ye Tian	University
	Northwootern Polytophnical
Gongmin Yan	Northwestern Polytechnical
	University
Sihai Li	Northwestern Polytechnical
	University
SunA10	3rd Floor Meeting Room VIP 02
Identification GNC	三层会议室 VIP 02
Chairs: Yacun Guan	Hangzhou Dianzi University
Na Duan	Jiangsu Normal University
13:30-13:38	SunA10.1
393 Local Enhancement Cont	rast Method for Maritime Tugboat
inage Denazing	China Ship Scientific Research
Liu Yang	CenterCSSRC
	Jiangsu Ocean University of
Zhengshu Shen	Ocean Engineering
	Deepsea Technological Science
Daofa Liu	Lian Yun Gang Center
	liangsu Ocean University of
Hongkun He	
	liangsu Ocean Liniversity of
Dazhi Huang	
12.20 12.46	
	SullA 10.2
learning	n games based remorcement
Yacun Guan	Hangzhou Dianzi University
	Naniing University of Aeronautics
Bin Jiang	and Astronautics
Yun Chen	Hangzhou Dianzi University
13:46-13:54	SunA10.3
409 Regularization Factor ba	sed Visual-Inertial SLAM Method
Considering State Uncertainty	in Dynamic Environments
Yao Zhao	Jiangsu University of Technology
Naibao He	Jiangsu University of Technology
	Nanjing University of Aeronautics
Zhi Xiong	and Astronautics
Lin Zhang	Jiangsu University of Technology
13:54-14:02	SunA10.4
411 Linear parameter model	ing method for high hypersonic

od for MEMS-IMU 411 Linear parameter modeling method variant aircraft

891 Fast Moving-Base Initial Alignment method for MEMS-IMU Based on Backward Kalman Filter

Waniia Cua	Northwestern Polytechnical
wenjie Guo	University
lingvan Zhao	Northwestern Polytechnical
Jingyan ∠nao	University
Xiaoxiang Hu	Northwestern Polytechnical
	University
	Northwestern Polytechnical
Hanyu Qian	University
14:02-14:10	SunA10.5
445 无人机基于视觉的机场目	自主驶入驶出流程建模
Tian Yin	AVIC Chengdu Aircraft Design
	and Research Institute
Bo Ma	AVIC Chengdu Aircraft Design
	and Research Institute
Duiwana	AVIC Chengdu Aircraft Design
Rul wang	and Research Institute
Tue Ora	AVIC Chengdu Aircraft Design
Tuo Gou	and Research Institute
Kun Liang	AVIC Chengdu Aircraft Design
	and Research Institute
14:10-14:18	SunA10.6
492 Application of Pulse N	Magnetic Treatment in Gyroscope
rolling bearing	
Xinming Zhang	Beijing Keeven Aviation
-	Instrument Co.
Ying Zhu	Beijing Keeven Aviation
J	Instrument Co.
Chaowei Wang	Beijing Keeven Aviation
	Instrument Co.
Wen Ji	Tsinghua University
Zhipeng Cai	Tsinghua University
14:18-14:26	SunA10.7
525 Design of non-collocat	ted space sampling sensing and
actuation based on a class of	t convective diffusion equations
	University of Jinan
Xiju Zong	University of Jinan
14:26-14:34	SunA10.8
528 Adaptive Mutation Trans	ster Strategies based Higher_x005f
Order Quantum Genetic A Problem	agonuntiti tor Satellite Scheduling
Xiaohan Sun	Space Engineering University
Yuan Ren	Space Engineering Universitv
Linahui Yu	DFH Satellite Co
J	

Dandan Wang

Xiongzi Chen	DFH Satellite Co.	
Yanchao He	DFH Satellite Co.	
14:34-14:42	SunA10.9	
621 Research on Velocity Meas	surement Method Based on Non-	
Contact Electrical Impedance D	Detection	
Shiiia .lin	JiLin Agricultural Science and	
	Technology College	
14:42-14:50	SunA10.10	
776 5G and D2D Network for Sr	nart Cities Using Internet of Thing	
Services		
Muhammad Usman	Beihang University	
Juhua Pu	Beihang University	
Attia Ur Rehman	Huazhong University of Science	
	and Technology	
Constans Lu	Huazhong University of Science	
	and Technology	
14:50-14:58	SunA10.11	
843 基于 BEV 表示的无人驾驶	使矿卡 3D 目标检测算法	
lio Liu	Huazhong University of Science	
JIE LIU	and Technology	
	Huazhong University of Science	
Gang Peng	and Technology	
14:58-15:06	SunA10.12	
1082 Constraint-Following for Trajectory-Tracking Control of		
1082 Constraint-Following for	Trajectory-Tracking Control of	
1082 Constraint-Following for AUVs with Measurement Errors	Trajectory-Tracking Control of	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang	rrajectory-Tracking Control of s Hunan University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou	Trajectory-Tracking Control of Hunan University Hunan University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li	Trajectory-Tracking Control of Hunan University Hunan University Hunan University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng	Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin	Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University Hunan University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14	Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University Hunan University SunA10.13	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人	r Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University Hunan University SunA10.13 机姿态跟踪控制	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu	Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University Hunan University SunA10.13 机姿态跟踪控制 Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan	Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University Hunan University SunA10.13 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li	r Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University Hunan University <u>SunA10.13</u> 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan	r Trajectory-Tracking Control of B Hunan University Hunan University Hunan University Hunan University Hunan University BunA10.13 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan 15:14-15:22	Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University Hunan University SunA10.13 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University Jiangsu Normal University Jiangsu Normal University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan 15:14-15:22 1685 基于改进扩张状态观测器	r Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University Hunan University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan 15:14-15:22 1685 基于改进扩张状态观测器 Guochao Xie	r Trajectory-Tracking Control of B Hunan University Hunan University Hunan University Hunan University Hunan University BunA10.13 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan 15:14-15:22 1685 基于改进扩张状态观测器 Guochao Xie Na Duan	 Trajectory-Tracking Control of B Hunan University Hunan University Hunan University Hunan University Hunan University BunA10.13 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University 	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan 15:14-15:22 1685 基于改进扩张状态观测器 Guochao Xie Na Duan Changhui Wan	r Trajectory-Tracking Control of B Hunan University Hunan University Hunan University Hunan University Hunan University BunA10.13 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan 15:14-15:22 1685 基于改进扩张状态观测器 Guochao Xie Na Duan Changhui Wan 15:14-15:22	r Trajectory-Tracking Control of B Hunan University Hunan University Hunan University Hunan University Hunan University University Jiangsu Normal University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan 15:14-15:22 1685 基于改进扩张状态观测器 Guochao Xie Na Duan Changhui Wan 15:12-15:30	r Trajectory-Tracking Control of B Hunan University Hunan University Hunan University Hunan University Hunan University BunA10.13 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan 15:14-15:22 1685 基于改进扩张状态观测器 Guochao Xie Na Duan Changhui Wan 15:12-15:30 1734 Kinematic analysis method	r Trajectory-Tracking Control of Hunan University Hunan University Hunan University Hunan University Hunan University SunA10.13 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University	
1082 Constraint-Following for AUVs with Measurement Errors Yuan Yang Feidiao Zou Rong Li Runze Zheng Hui Yin 15:06-15:14 1390 状态约束下的四旋翼无人 Yuang Liu Na Duan Can Li Changhui Wan 15:14-15:22 1685 基于改进扩张状态观测器 Guochao Xie Na Duan Changhui Wan 15:12-15:30 1734 Kinematic analysis methor robot with seven degrees of free	r Trajectory-Tracking Control of B Hunan University Hunan University Hunan University Hunan University Hunan University SunA10.13 机姿态跟踪控制 Jiangsu Normal University Jiangsu Normal University	

DFH Satellite Co.

University of Jinan
University of Jinan
SunA10.16
i Model High Order Unscented
Target Tracking Accuracy and
Naval University of Engineering
3rd Floor Aisle
三层廊厅
Beihang University
Beihang University
SunA11.1
Method Based on Constraint
(i'an Research Institute of Hi-tech
Tsinghua University
Beijing Aerospace Automatic
Control Institute
Tsinghua University
Sun A11.2
Based on the Improved IFDS
VIC Xi'an Flight Automatic Control
Research Institute
VIC Xi'an Flight Automatic Control
Research Institute
VIC Xi'an Flight Automatic Control
Research Institute
VIC Xi'an Flight Automatic Control
Research Institute
VIC Xi'an Flight Automatic Control
Research Institute
VIC Xi'an Flight Automatic Control
Research Institute
VIC Xi'an Flight Automatic Control
Research Institute
VIC Xi'an Flight Automatic Control
Research Institute
VIC Xi'an Flight Automatic Control
Research Institute
VIC Xi'an Flight Automatic Control
Research Institute
Sun A11.3

Bin Niu	AVIC Shenyang Aircraft Design
	and Research Institute
Di Wu	AVIC Shenyang Aircraft Design
	and Research Institute
Yifan Qi	AVIC Shenyang Aircraft Design
	and Research Institute
13:30-15:30	Sun A11.4

924 An Autonomous Relative Navigation Algorithm Based on Interframe and Scene Matching AVIC Xi'an Flight Automatic Jinjiang Wang **Control Research Institute** AVIC Xi'an Flight Automatic Jiahang Dong Control Research Institute AVIC Xi'an Flight Automatic Yazhou Yue Control Research Institute AVIC Xi'an Flight Automatic Qi Zhou Control Research Institute Xiaodong Zhang AVIC Xi'an Flight Automatic Control Research Institute Haofeng Jiang AVIC Xi'an Flight Automatic Control Research Institute Haoming Wang AVIC Xi'an Flight Automatic Control Research Institute Guanjie Wang AVIC Xi'an Flight Automatic Control Research Institute AVIC Xi'an Flight Automatic Shu Wang Control Research Institute 13:30-15:30 Sun A11.5 926 Distributed Cooperative Guidance Law Design via Look Angle Tracking Xin Yi Beijing Institute of Technology Wei Dong Beijing Institute of Technology Northwestern Polytechnical Yingjie Jiao University Korea Advanced Institute of Pengyu Wang Science and Technology Chunyan Wang Beijing Institute of Technology Fang Deng Beijing Institute of Technology 13:30-15:30 Sun A11.6 929 Random Error Suppression of Hemispheric Resonance Gyroscope Based on ITD Wuhan Second Ship Design and Yabo Wang Research Institute

	Research institute
Xu Gao	Harbin Institute of Technology
Jian Yang	Wuhan Second Ship Design and
olain railig	Research Institute
Wei Gao	Harbin Institute of Technology
13:30-15:30	Sun A11.7
933 On Pilot-in-the-Loop Flight Simulation for Direct Lift Control	

during Landing Approaches

Xiaolei Qu Northwestern Polytechnical University

 920 飞机自主着陆引导中的鲁棒跑道检测算法研究

 Hui Huang
 AVIC Shenyang Aircraft Design

and Research Institute

Xiaovang He	AVIC Shenyang Aircraft Design	1
Alabyang ne	and Research Institute	,
Menghua Li	Beihang University	
Linghong Lan	Beihang University	
13:30-15:30	Sun A11.8	
936 Transition Trajectory P	lanning for Tilt-Rotor Aircraft based on	
SA-IGA Algorithm		
	Nanjing University of Aeronautics	
zongyun chen	and Astronautics	
Zhiqi Zhang	Nanjing University of Aeronautics	
Zhiqi Zhang	and Astronautics	
Shouzhao Sheng	Nanjing University of Aeronautics	
ened2nde eneng	and Astronautics	
Suozhong Yuan	Nanjing University of Aeronautics	
g	and Astronautics	
13:30-15:30	Sun A11.9	
939 Survey on Integrated (Guidance and Control of Unmanned	
Aerial Vehicle		-
Yuxie Luo	Beihang University	
Jia Song	Beihang University	l
Mingfei Zhao	Beihang University	
13:30-15:30	Sun A11.10	
940 Self-Organized Behavi	or-Based Multi-UAV Collaborative	
Obstacle Avoidance in Urb	an Environments	
Zhihao Cao	Beijing Information Science and	
	Technology University	-
Xiaohin Xu	Beijing Information Science and	-
Aldobill Ad	Technology University	
Shivao Lin	China Research and Development	
	Academy of Machinery Equipment	
Junfang Fan	Beijing Information Science and	
Ū	Technology University	
Xu Wang	Beijing Information Science and	
	Technology University	
Chengyu Gu	Beijing Information Science and	
	Technology University	
13:30-15:30	Sun A11.11	
941 Design and Implement	ation of Adaptive Management	
Framework for Avionics Sy	stem Services	:
Zhilei Gao	Beihang University	1
Jin Xiao	Beihang University	
Xiaoguang Hu	Beihang University	
Xiangyu Zhao	Science and Technology on Space	
	Physics Laboratory	
13:30-15:30	Sun A11.12	
944 Design of Nap-of-the-E	aπn of Helicopter Flight Control Law	
Based on Dynamic Inversion	on and Robust Complete Tracking	
Panpan Xiong	Nanjing University of Aeronautics	
		_
Shouzhao Sheng	and Astronautics	_
13:30-15:30		1
10.00-10.00	Sull A 11.13	

946 Integrated Design of the	Airframe and Trajectory of
Aerospace Vehicles	
	Yangzhou Collaborative Innovation
Zhiiun Sun	Research Institute of Shenyang
Zinjun Gun	Aircraft Design and Research
	Institute
	Yangzhou Collaborative Innovation
Biao Liu	Research Institute of Shenyang
DIAO LIU	Aircraft Design and Research
	Institute
	Yangzhou Collaborative Innovation
Vibo Li	Research Institute of Shenyang
	Aircraft Design and Research
	Institute
	Yangzhou Collaborative Innovation
	Research Institute of Shenyang
Liang Xu	Aircraft Design and Research
	Institute
13:30-15:30	Sun A11.14
948 Lithium Battery RUL Pre	ediction Method Based on
Degradation Model Dynamic	: Updating
	Nanjing University of Aeronautics
Fei Jiang	and Astronautics
0	Nanjing University of Aeronautics
Chenglie Han	and Astronautics
0 0	Nanjing University of Aeronautics
Cong Peng	and Astronautics
13:30-15:30	Sun A11.15
949 基于 FFT 的 LVDT 信号	解调方法
5	AVIC Xi'AN Flight Automatic
Dezhi Kong	Control Research Institute
	AVIC Xi'AN Flight Automatic
Yitao Huang	Control Research Institute
	AVIC Xi'AN Flight Automatic
Haigang Xu	Control Research Institute
	AVIC Xi'AN Flight Automatic
Shuai Cao	Control Research Institute
a , b	AVIC Xi'AN Flight Automatic
Shaoguang Du	Control Research Institute
13:30-15:30	Sun A11.16
950 Fault reconstruction me	thod of neural network observer group
for high-speed vehicle	
	Northwestern Polytechnical
Cong Li	University
	Northwestern Polytechnical
Yibo Ding	University
	Northwestern Polytechnical
Cheng Bi	l Iniversity
	Northwestern Polytechnical
Xiaokui Yue	liniversity
	Beijing Electro-mechanical
Yuhao Wang	Engineering Institute

952 Learning to Mine Context Information for Remote Sensing

Sun A11.17

13:30-15:30

Small Object Detection

Lang Li	Northwestern Polytechnical
	University
lie Tang	Northwestern Polytechnical
bie lang	University
Zhigiang Chi	Northwestern Polytechnical
	University
Yungiang Niu	Northwestern Polytechnical
	University
	Science and Technology on
lun Ren	Complex System Control and
builten	Intelligent Agent Cooperation
	Laboratory
	Science and Technology on
leili	Complex System Control and
	Intelligent Agent Cooperation
	Laboratory
Xiwen Yao	Northwestern Polytechnical
Xiwen ruo	University
Gong Cheng	Northwestern Polytechnical
Cong Cheng	University
lunwei Han	Northwestern Polytechnical
	University
13:30-15:30	Sun A11.18

953 Dynamic Gesture Recognition Using R3D Network with Adaptive Temporal Feature Resolutions

Yuren Sun	Nanjing University of Aeronautics
	and Astronautics
Hui He	Nanjing University of Aeronautics
	and Astronautics
Chaoving Tang	Nanjing University of Aeronautics
jg	and Astronautics
Sivu Huang	Nanjing University of Aeronautics
,	and Astronautics
Biao Wang	Nanjing University of Aeronautics
5	and Astronautics
Taiping Jiang	Anhui University of Technology
13:30-15:30	Sun A11.19
955 Cauchy-based Robust Ka	lman Filter applied in Guidance
Information Estimation	
Jiawei Ren	Nankai University
Xiaoyu Zhang	Nankai University
Shoupeng Li	Nankai University
Yueying Pei	Nankai University
13:30-15:30	Sun A11.20
956 网络攻击下导弹自适应事	件触发制导律研究

Yuxin Gao	Nanjing University of Aeronautics
	and Astronautics
Shaojie Zhang	Nanjing University of Aeronautics
	and Astronautics
Chunsheng Liu	Nanjing University of Aeronautics
	and Astronautics
13:30-15:30	Sun A11.21

964 Preliminary Modeling and Analysis of Planar Two-Mass Wheel System with Dampers

Haoling Yin	Bauman Moscow State Technical
	University
Haoyang Li	Beihang University
Yichen Ju	Bauman Moscow State Technical
	University
Chuan Cao	CNPC Engineering Technology
	R&D Company Limited
Yehan Wang	CNPC Engineering Technology
	R&D Company Limited
Li Fu	Beihang University
13:30-15:30	Sun A11.22

965 Inertial-Visual Navigation Technology Based on Scene Matching in GNSS Denial Environments

Haofeng Jiang	AVIC Xi' an Flight Automatic
	Control Research Institute
Yazhou Yue	AVIC Xi' an Flight Automatic
	Control Research Institute
liabang Dong	AVIC Xi' an Flight Automatic
blanding Bolig	Control Research Institute
Qi Zhou	AVIC Xi' an Flight Automatic
	Control Research Institute
Xiaodong Zhang	AVIC Xi' an Flight Automatic
Adodolig Zhang	Control Research Institute
Nan Liu	AVIC Xi' an Flight Automatic
	Control Research Institute
Shu Wang	AVIC Xi' an Flight Automatic
	Control Research Institute
Jinijang Wang	AVIC Xi' an Flight Automatic
only only of any	Control Research Institute
Guaniie Wang	AVIC Xi' an Flight Automatic
e danjio mang	Control Research Institute
Haoming Wang	AVIC Xi' an Flight Automatic
	Control Research Institute
13:30-15:30	Sun A11.23
968 基于退化注入的场路耦合模	型的锂离子电池 SOC 估计方法
Bo Sun	Beihang University
Tongshu Lin	Beihang University
Zeyu Wu	Beihang University
Cheng Qian	Beihang University
Leyang Zhou	Beihang University

13:30-15:30 Sun A11.24 969 Cross-Modality Fusion Deformable Transformer for Multispectral Object Detection

Yigan Wang	Nanjing University of Aeronautics
	and Astronautics
Chaoying Tang	Nanjing University of Aeronautics
	and Astronautics
Qiaohan Shi	Nanjing University of Aeronautics
	and Astronautics

Beihang University

Zechen Yi

13:30-15:30	Sun A11.25
973 Fixed-Time Actuator Fa	ult-Tolerant Control with Prescribed
Performance for Quadrotor	UAVs
Hao Liu	Southwest University of Science
	and Technology
Yuying Guo	Southwest University of Science
	and Technology
13:30-15:30	Sun A11.26
977 Event Triggered Conser	nsus Algorithm for Leader-Follower
Multi-agent Systems Under	Jointly-connected Topology
Hongdan Luo	Northwestern Polytechnical
	Northwestern Polytochnical
Sun Yang	Liniversity
	Northwestern Polytechnical
Shixuan Yang	University
	Northwestern Polytechnical
Yu-jie Si	University
	Beijing Institute of Electronic
Aijun Li	Engineering
X O	Northwestern Polytechnical
Yong Guo	University
13:30-15:30	Sun A11.27
982 Attitude Control of Spac	ecraft Based on Deep Reinforcement
Learning TD3 Algorithm	
Zhuoyue Peng	Shanghai Jiao Tong University
Qiang Shen	Shanghai Jiao Tong University
Chi Song	Shanghai Jiao Tong University
13:30-15:30	Sun A11 28
986 Multi-LIAV Cooperative	Multi-Objective Task Allocation Based
on Deep Reinforcement Lea	nning
Jinavi Gu	Northwestern Polytechnical
	University
Shunmin Li	Systems Engineering Research
	Institute
Guanqun Wu	Beijing Institute of Spacecraft
	System Engineering
Aijun Li	Northwestern Polytechnical
	University
Yong Guo	Northwestern Polytechnical
	University
13:30-15:30	Sun A11.29
987 MT-DeepLabv3+: An Er	hanced Deep Learning Approach for
the Detection of Resident Sp	pace Objects in Geostationary Orbit
Jiaxin Liu	Nanjing University of Aeronautics
	and Astronautics
Feng Yu	Nanjing University of Aeronautics
	and Astronautics
Yinghao Wu	
	Anu Astronautics
Zihan Zhen	and Astronautics
13:30-15:30	Sun A11 30
	3417711.00

993 Swing suppression and path tracking control of Quadrotor-Slung-Load System with unknown mass load Cheng Xin Beihang University Wenhao Wang Beihang University Zhang Jing Beihang University Lingyu Yang Beihang University 13:30-15:30 Sun A11.31 995 基于冗余性分析的 3D Zernike 矩描述子改进 Junjie Zhou **Beihang University** Beijing System Design Institude of Guoxin Qu Electro-mechanic Engineering Kedong Wang Beihang University 13:30-15:30 Sun A11.32 996 Low altitude terrain following trajectory control of unmanned aerial vehicles based on energy protection Kaizhi Yang Beijing Keeven Aviation Instrument Ying Zhu Beijing Keeven Aviation Instrument Wentao Yin Beijing Keeven Aviation Instrument 13:30-15:30 Sun A11.33 998 飞行员足底压力状态实时评估系统设计研究 Shenyang Aircraft Design and Zhongrui Zhao **Research Institute** Shenyang Aircraft Design and Liyang Yao **Research Institute** Shenyang Aircraft Design and Jinlei Zheng **Research Institute** Yueming Wu Shenyang Aircraft Design and **Research Institute** Northwestemn Polytechnical Ying Peng University 13:30-15:30 Sun A11.34 999 Real-time Prediction of Multi-Step Ahead Non-Cooperative Target Aircraft Positions using ED-LSTM AVIC Xi'an Flight Automatic Shu Wang **Control Research Institute** AVIC Xi'an Flight Automatic Yibing Lan Control Research Institute AVIC Xi'an Flight Automatic Weijia Wang Control Research Institute AVIC Xi'an Flight Automatic Quanlin Qi Control Research Institute AVIC Xi'an Flight Automatic Yazhou Yue Control Research Institute 13:30-15:30 Sun A11.35 1000 Online generation of longitudinal trajectories for TAEM

phase of RLV based on offline trajectory library	
Yunyu Bai	AVIC Xi' an Flight Automatic
Tullyu Dal	Control Research Institute
Teng Ma	AVIC Xi' an Flight Automatic
Teng Ma	Control Research Institute
Zhe Deng	AVIC Xi' an Flight Automatic

	Control Research Institute
Zhan Wang	AVIC Xi' an Flight Automatic
Ū	Control Research Institute
Guangwen Li	Northwestern Polytechnical
	University
13:30-15:30	Sun A11.36
1001 A Distributed Unbala	ance Task Assignment Algorithm for
Multi-UAV Interception	
Xiaodong Lu	Northwestern Polytechnical
	University
Yiming Wang	Northwestern Polytechnical
Jialiang Zhang	
	Engineering Institute
Guanghui Wu	
	Engineering Institute
Mengjie Zhu	Shanghai Electro-Mechanical
12:20 15:20	Engineering Institute
13.30-13.30	Sun A11.37
003 查丁致1倍把列的组合	コオル政御伯彤征例切几
Chaxiaoyu Zhou	Beinang University
Guoxin Qu	Beijing System Design Institude of
	Electro-mechanic Engineering
Kedong Wang	Beihang University
13:30-15:30	Sun A11.38
1004 基于旋角修正的 2D	Zernike 矩地形匹配算法
Quan Hu	Beihang University
Questin Qu	Beijing System Design Institude of
Guoxin Qu	Electro-mechanic Engineering
Kedong Wang	Beihang University
13:30-15:30	Sun A11 39
1005 Research on Electri	c motors health assessment technology
based on information fusi	on
Shuija Qin	BeiHang University
	Den lang Oniversity
Hongmei Liu	BeiHang University
	System Engineering Research
Yilin Liu	Institute of China State
	Shipbuilding Corporation Limited
Guoao Ning	BeiHang University
Chengcheng Wang	Instrumentation Technology and
- ·-··ə···ə	Economy Institute
Nuo Zhao	China Institute of Nuclear Industry
	Strategy
Laifa Tao	BeiHang University
13:30-15:30	Sun A11.40
1007 An Stochastic Mode	I Predictive Control method for UAV
Path Planning	
Gaoqi Liu	Sichuan University
Minamina Shi	Sichuan University
Bin Li	Sichuan University
13:30-15:30	Sun A11.41

1009 基于滑模共轴旋翼无人机姿态控制

	College of Intelligence Science and
Fengshuo Wang	Technology National University of
	Defense Technology Changsha
Peng Li	College of Intelligence Science and
	Technology National University of
	Defense Technology Changsha
13:30-15:30	Sun A11.42
1011 Sliding Mode base	ed Line-of-Sight Tracking for Hypersonic
Gliding Vehicle	
Wanru Ha	Beijing Institute of Technology
Jie Wang	Beijing Institute of Electronic
5	System Engineering
Junhui Liu	Beijing Institute of Technology
Jiayuan Shan	Beijing Institute of Technology
13:30-15:30	Sun A11.43
1013 High Precision Gr	asping Control Based on Linear Quadrat
Regulator for Three-join	nt Aerial Manipulator
Xinyu Zhu	Beihang University
Jiang Wu	Beihang University
13:30-15:30	Sun A11.44
1014 知识与数据驱动组	告合的空空导弹参数辨识与建模方法
	AVIC Xi' an Flight Automatic
Yibing Lan	Control Research Institute
	AVIC Xi' an Flight Automatic
Pengbo Wu	Control Research Institute
Minahui Zhana	AVIC Xi' an Flight Automatic
Minghui Zhang	Control Research Institute
13:30-15:30	Sun A11.4
1018 Model Reference	Adaptive Disturbance Rejection Control
Based on RBF-CMAC o	of A RLV
Sui Xu	AVIC Xi' an Flight Automatic
	Control Research Institute
Yunvan Wu	AVIC Xi' an Flight Automatic
,	Control Research Institute
Yueping Wana	AVIC Xi' an Flight Automatic
1 5	Control Research Institute
Guangwen Li	Northwestern Polytechnical
-	University
13:30-15:30	Sun A11.4
1019 Robust structured	H^{∞} control of multibody unmanned aer
vehicle	
Han Yan	Beijing Institute of Control
Dong Sup	Engineering
	Beinang University
Qingxian Li	Beihang University
Pengyuan Qi	Beihang University
13:30-15:30	Sun A11.4
1020 基于熵权法的登林	们门开启限速装置行星轮系参数设计
Wenjing Zhi	Aviation Equipment Research
, , ,	

Aviation Equipment Research Institute, AVIC Qing' an Group

Guocai Li	Aviation Equipment Research
	Institute, AVIC Qing' an Group
Chen Zhang	Aviation Equipment Research
Chen Zhang	Institute, AVIC Qing' an Group
Weniuan Zheng	Aviation Equipment Research
Wenjuan Zheng	Institute, AVIC Qing' an Group
Dongping Liu	Aviation Equipment Research
	Institute, AVIC Qing' an Group
13:30-15:30	Sun A11.48

1022 A High Reliability Navigation System Configuration Scheme and Optimal Configuration Analysis Method

lingwon Huang	AVIC Xi' an Flight Automatic
Jingwen mang	Control Research Institute
Zhu lin	AVIC Xi' an Flight Automatic
	Control Research Institute
Yong Mo	AVIC Xi' an Flight Automatic
	Control Research Institute
Liu Gao	AVIC Xi' an Flight Automatic
	Control Research Institute
Yunvan Wu	AVIC Xi' an Flight Automatic
Tunyan Wa	Control Research Institute
13:30-15:30	Sun A11.49
1026 Signal Denoising Metho	d Based on AITD-IBD-ITF for

 Hemispherical Resonant Gyroscope in Force-to-Rebalance Model

 Ruizhao Cheng
 BeiHang University

 Gongliu Yang
 Zhejiang University

 Qingzhong Cai
 BeiHang University

 Suier Wang
 CRSC Research & Design Institute

 Xiaodi Yi
 BeiHang University

 13:30-15:30
 Sun A11.50

 1029 Research on Control Method for Flexible Mounting CMG

 Gimbal Servo System Based on Structural Filter

Nuo Su	Beijing Institute of Control
Ming Lu	Beijing Institute of Control
	Engineering
Weiheng Zhao	Beijing Institute of Control
	Engineering
Limei Tian	Beijing Institute of Control
	Engineering
Qiang Zhang	Beijing Institute of Control
	Engineering
Yuewei Hu	Beijing Institute of Control
	Engineering
Zhulin Liang	Beijing Institute of Control
2.nam Elang	Engineering
Zhivin Zhao	Beijing Institute of Control
	Engineering
13:30-15:30	Sun A11.51
1035 Model Predictive Control with Deck Motion Prediction for	

Jingxuan Zeng

and AstronauticsChuntao LiNanjing University of Aeronautics
and AstronauticsXinru WangNanjing University of Aeronautics
and AstronauticsYuepu HanNanjing University of Aeronautics
and AstronauticsZikang SuNanjing University of Aeronautics
and Astronautics13:30-15:30Sun A11.52

 1037 临近空间高动态退化星图模拟

 Jinglin Ma
 Beihang University

 Guoxin Qu
 Beijing System Design Institude of Electro-mechanic Engineering

 Kedong Wang
 Beihang University

 13:30-15:30
 Sun A11.53

 1039 Factor-Graph-Based Multi-Source Information Fusion

Localization Method

Localization Method	
Honafu Liu	National University of Defense
5	Technology
Kaiyan Liang	University of Electronic Science
	and Technology of China
Yajing Fu	National University of Defense
	Technology
Daoqiang Zhou	University of Electronic Science
	and Technology of China
Lo Chong	University of Electronic Science
Le onlang	and Technology of China
13:30-15:30	Sun A11.54
1043 The Study of Association Analysis on Aircraft Control	
Systems Data	
Oian Xu	Beijing Aerospace Automatic
Qian Xu	Control Institute
Na Yao	Beijing Aerospace Automatic
	Control Institute
Kunfanglu	Beijing Aerospace Automatic
	Control Institute
Chuxiang Ni	North University of China
Nuosi Yu	Beijing Electronic Technology
Nuoqi Xu	

 Vocational College

 13:30-15:30
 Sun A11.55

 1048 Low-Speed Frame Control of SGCMG Based on High

Precision Grating Angle Measurement	nt
Weiheng Zhao	Beijing Institute of Control
	Engineering
Limei Tian	Beijing Institute of Control
	Engineering
Nuo Su	Beijing Institute of Control
	Engineering
Yuewei Hu	Beijing Institute of Control
	Engineering
Qiang Zhang	Beijing Institute of Control
	Engineering

Nanjing University of Aeronautics

Minalu	Beijing Institute of Control
	Engineering
Zhulin liang	Beijing Institute of Control
	Engineering
Zhixin Zhao	Beijing Institute of Control
12:20 15:20	Engineering
13:30-15:30	Sun A11.50
Formation Control for Interce	enting Missiles
Zihan Wang	Beijing Institute of Technology
lingliong Sup	
Jingliang Sun	Beijing Institute of Technology
Teng Long	Beijing Institute of Technology
Yingjie Jiao	Northwestern Polytechnical University
Junzhi Li	Beijing Institute of Technology
13:30-15:30	Sun A11.57
1051 Research on Beyond V	/isual Range Air Combat Technology
Based on Hybrid Decision M	lodels
Zhen Li	AVIC Shenyang Aircraft Design
	and Research Institute
Yanzhang Zhou	AVIC Shenyang Aircraft Design
	and Research Institute
Tianyue Chen	and Research Institute
	AVIC Shenyang Aircraft Design
Shihao Li	and Research Institute
Helu Yang	Beihang University
13:30-15:30	Sun A11 58
1055 Detection of Wind Turb	ine Blade Surface Defects Based on
Images Captured by UAVs	
Qiachan Shi	Nanjing University of Aeronautics
	and Astronautics
Chaoving Tang	Nanjing University of Aeronautics
endeying rang	and Astronautics
Yigan Wang	Nanjing University of Aeronautics
	and Astronautics
Biao Wang	Nanjing University of Aeronautics
	and Astronautics
Xin Liu	Hunan Sky Aviation Technology
13:30-15:30	
1056 YOLOv8 for Small Infra	ared Target Detection
Yilan Zhuo	Harbin Institute of Technology
Woili	
vvei Li	Harbin Institute of Technology
Ju Huo	Harbin Institute of Technology
Iao Chao	Harbin Institute of Technology
13:30-15:30	Sun A11.60
1059 Distributed Task Alloca	tion for Large-Scale Heterogeneous
LAVS CONSIDERING Resource	Boihang University
Fangyu Shi	beinang University
D 1 7	Reihang University

1065 On Disturbance-Rejection Guidance Laws For Missiles With Canard/Tail Rudder Control Hongyu Zhao Shanghai Electromechanical Engineering Research Institute Shengli Xu Shanghai Electromechanical Engineering Research Institute Yifan Ren Shanghai Electromechanical Engineering Research Institute Ya Yang Shanghai Electromechanical Engineering Research Institute Wei Yin Shanghai Electromechanical 13:30-15:30 Sun A11.62 1070 The laser mapping algorithm integrating ground constraints Guochen Niu Civil Aviation University of China Xiangyu Luan Civil Aviation University of China 13:30-15:30 Sun A11.63 1071 Active Obstacle Avoidance Based on Improved Dynamic Window Approach for Off-axis Full-trailer Vehicles Dandan Hu Civil Aviation University of China Jinju Zhao Civil Aviation University of China	13:30-15:30	Sun A11.61	
Canard/Tail Rudder Control Hongyu Zhao Shanghai Electromechanical Engineering Research Institute Shengli Xu Shanghai Electromechanical Engineering Research Institute Yifan Ren Shanghai Electromechanical Engineering Research Institute Ya Yang Shanghai Electromechanical Engineering Research Institute Wei Yin Shanghai Electromechanical 13:30-15:30 Sun A11.62 1070 The laser mapping algorithm integrating ground constraints ad semantic constraints Guochen Niu Civil Aviation University of China Xiangyu Luan Civil Aviation University of China Xiangyu Luan Civil Aviation University of China Jinju Zhao Civil Aviation University of China Jisao-15:30 Sun A11.64 1072 Multi	1065 On Disturbance-Reje	ction Guidance Laws For Missiles With	
Hongyu ZhaoShanghai Electromechanical Engineering Research InstituteShengli XuShanghai Electromechanical Engineering Research InstituteYifan RenShanghai Electromechanical Engineering Research InstituteYa YangShanghai Electromechanical Engineering Research InstituteWei YinShanghai Electromechanical Engineering Research Institute13:30-15:30Sun A11.621070 The laser mapping algorithm integrating ground constraints and semantic constraintsGuochen NiuCivil Aviation University of China Xiangyu Luan13:30-15:30Sun A11.631071 Active Obstacle Avoidance Based on Improved Dynamic Window Approach for Off-axis Full-trailer VehiclesDandan HuCivil Aviation University of China dia: 50013:30-15:30Sun A11.641072 Multi-target Tracking Algorithm for Low-altitude UAVs Based on Greedy StrategyZhuo ChenNorthwestern Polytechnical University13:30-15:30Sun A11.651074 FSONet: Side-Scan Sonar Image Recognition Based on Feature Space Optimization* Yuhui LiYuhui LiNortheastern University Junyi Wang13:30-15:30Sun A11.661075 StyrsNet: A VOCs Gas Detection Method for Infrared Videos Zhenyi XuLherie Comprehensive Nationa IScience Center Kehao ShiUniversityGiscience Center Iscience CenterYang CaoHefei Comprehensive Nationa IScience CenterYang CaoHefei Comprehensive Nationa IScience CenterYang CaoHefei Comprehensive Nationa IScience CenterYang CaoHefei Compre	Canard/Tail Rudder Contro	I	
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Shengli Xu Shanghai Electromechanical Engineering Research Institute Yifan Ren Shanghai Electromechanical Engineering Research Institute Ya Yang Shanghai Electromechanical Engineering Research Institute Wei Yin Shanghai Electromechanical 13:30-15:30 Sun A11.62 1070 The laser mapping algorithm integrating ground constraints and semantic constraints Guochen Niu Civil Aviation University of China Xiangyu Luan Civil Aviation University of China 13:30-15:30 Sun A11.63 1071 Active Obstacle Avoidance Based on Improved Dynamic Window Approach for Off-axis Full-trailer Vehicles Dandan Hu Civil Aviation University of China Jinju Zhao Civil Aviation University of China 13:30-15:30 Sun A11.64 1072 Multi-target Tracking Algorithm for Low-altitude UAVs Based on Greedy Strategy Zhuo Chen Northwestern Polytechnical University Sun A11.65 1074 FSONet: Side-Scan Sonar Image Recognition Based on Feature Space Optimization* Yuhui Li Yuhui Li Northeastern University 13:30-15:30 <td></td> <td>Engineering Research Institute</td>		Engineering Research Institute	
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Dandan HuCivil Aviation University of ChinaJinju ZhaoCivil Aviation University of ChinaGuochen NiuCivil Aviation University of China13:30-15:30Sun A11.641072 Multi-target Tracking Algorithm for Low-altitude UAVs Basedon Greedy StrategyZhuo ChenNorthwestern PolytechnicalUniversityKang LiuNorthwestern PolytechnicalUniversity13:30-15:30Sun A11.651074 FSONet: Side-Scan Sonar Image Recognition Based onFeature Space Optimization*Yuhui LiNortheastern UniversityJunyi WangNortheastern UniversityJunyi WangNortheastern UniversityJunyi WangSun A11.661075 SYv5Net: A VOCs Gas Detection Method for Infrared VideosZhenyi XuHefei Comprehensive NationaIScience CenterKehao ShiYang CaoHefei Comprehensive NationaIScience CenterSun A11.671077 Fast solution of underwater vehicle vibration response	Window Approach for Off-a	axis Full-trailer Vehicles	
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Jun FuNortheastern University13:30-15:30Sun A11.661075 SYv5Net: A VOCs Gas Detection Method for Infrared VideosZhenyi XuHefei Comprehensive NationaIScience CenterKehao ShiUniversity of Science and Technology of ChinaYang CaoHefei Comprehensive Nationa IScience CenterYu KangHefei Comprehensive Nationa IScience Center13:30-15:30Sun A11.671077 Fast solution of underwater vehicle vibration response	Junyi Wang	Northeastern University	
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1075 SYv5Net: A VOCs Gas Detection Method for Infrared Videos Zhenyi Xu Hefei Comprehensive Nationa IScience Center Kehao Shi University of Science and Technology of China Yang Cao Hefei Comprehensive Nationa IScience Center Yu Kang Hefei Comprehensive Nationa IScience Center 13:30-15:30 Sun A11.67 1077 Fast solution of underwater vehicle vibration response	13:30-15:30	Sun A11.66	
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Yang Cao Hefei Comprehensive Nationa Yu Kang Hefei Comprehensive Nationa Yu Kang Hefei Comprehensive Nationa IScience Center IScience Center 13:30-15:30 Sun A11.67 1077 Fast solution of underwater vehicle vibration response	Kehao Shi	University of Science and	
Yang Cao Hefei Comprehensive Nationa IScience Center Yu Kang Hefei Comprehensive Nationa IScience Center 13:30-15:30 Sun A11.67 1077 Fast solution of underwater vehicle vibration response		Technology of China	
IScience Center Yu Kang Hefei Comprehensive Nationa IScience Center 13:30-15:30 Sun A11.67 1077 Fast solution of underwater vehicle vibration response	Yang Cao	Hefei Comprehensive Nationa	
Yu Kang Hefei Comprehensive Nationa IScience Center 13:30-15:30 Sun A11.67 1077 Fast solution of underwater vehicle vibration response	-	IScience Center	
IScience Center 13:30-15:30 Sun A11.67 1077 Fast solution of underwater vehicle vibration response	Yu Kang	Hefei Comprehensive Nationa	
13:30-15:30 Sun A11.67 1077 Fast solution of underwater vehicle vibration response	-	IScience Center	
1077 Fast solution of underwater vehicle vibration response	13:30-15:30	Sun A11.67	
•	1077 Fast solution of unde	rwater vehicle vibration response	

based on POD method Heng Wang Northwestern Polytechnical University

Kuan Lu	Northwestern Polytechnical
	University
Jun Liu	AVIC Shenyang Aircraft Design
	and Research Institute
Jianzhong Tong	AVIC Shenyang Aircraft Design
	and Research Institute
Wei Zheng	AVIC Shenyang Aircraft Design
	and Research Institute
Kangyu Zhang	Northwestern Polytechnical
	University
13:30-15:30	Sun A11.68
1078 Single-pixel image-free	target recognition based on
encoding matrix sequence	
He Huang	Huaqiao University
Hui Shao	Huaqiao University

YuXiao Wei	Beijing Institute of Technology
HuiJuan Zhang	Beijing Institute of Technology
Shuai-Jun Zhou	Beijing Aerospace Automatic
	Control Institute
Yuan-Jin Yu	Beijing Institute of Technology
13:30-15:30	Sun A11.69
1080 Dynamic Stability of	Spinning Guided Projectile with
Pseudo-angle of Attack F	eedback Overload Autopilot in High
Altitude Environment	
Heting Wang	Beijing Institute of Technology
Hui Wang	Beijing Institute of Technology
Keqing Guo	Beijing Institute of Technology
Yuanyue Lei	Beijing Institute of Technology
Jing Liu	Beijing Institute of Technology
13:30-15:30	Sun A11.70
1085 Guidance Law with	Terminal Velocity Constraint for
Hypersonic Morphing Veh	nicle
Yizheng Li	Beijing Institute of Technology
Junhui Liu	Beijing Institute of Technology
Jiayuan Shan	Beijing Institute of Technology
Jianan Wang	Beijing Institute of Technology
13:30-15:30	Sun A11.71
1089 UAV situational leve	l formation control strategy for Beyond
Visual Range (BVR) air ce	ombat
Xiaojun Zhang	AVIC Chengdu Aircraft Design and
	Research Institute
Zhongrong Chen	AVIC Chengdu Aircraft Design and
	Research Institute
Yujia Tie	AVIC Chengdu Aircraft Design and
	Research InstituteAVIC Chengdu
	Aircraft Design and Research
	Institute

Yinchao Chen	
13:30-15:30	Sun A11.72
1090 Nonlinear Model Predictive	Control for UAV Trajectory
Optimization	
Yi Cui	Sichuan University
Bin Li	Sichuan University
Mingming Shi	Sichuan University

13:30-15:30	Sun A11.73
1093 Analytical Method fo	r the Number of Consecutive Multi-
Circle Revisits of Ground Ta	rgets by Satellite
Fusheng Li	Harbin Institute of Technology
Xi Liang	Beijing Institute of Astronautical
	Systems Engineering
Zenan Zhong	Harbin Institute of Technology
Tao Chao	Harbin Institute of Technology
13:30-15:30	Sun A11.74
1096 Analysis of Trim Cha	aracteristics and Control Performance
for the Single-Engine Failed	Civil Aircraft during Landing and
Approaching	, , , , , , , , , , , , , , , , , , ,
Jinli Han	Beihang University
	AVIC Xi'AN Flight Automatic
	Control Research Institute
ling Zhang	Beihang University
Lingvu Yang	Beihang University
12:20 15:20	Sup A11 75
13:30-13:30	
1099 典型超视距全战多偏处	+机动决束方条研究
Bingwei Yang	Beijing Institute of Technology
LI MO	Beijing Institute of Technology
Chao Xia	AVIC Chengdu Aircraft Design and
	Research Institute
Dengyu Yin	AVIC Chengdu Aircraft Design and
	Research Institute
Maolong Ly	AVIC Chengdu Aircraft Design and
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	Research Institute
13:30-15:30	Research Institute Sun A11.76
13:30-15:30 1101 Modular 4D Trajecto	Research Institute Sun A11.76 ry Prediction Framework for Flight
13:30-15:30 1101 Modular 4D Trajecto Management System under	Research Institute Sun A11.76 ry Prediction Framework for Flight Multiple RTA Restrictions
13:30-15:301101Modular 4D TrajectoManagement System under Pengpeng Guo	Research Institute Sun A11.76 ry Prediction Framework for Flight Multiple RTA Restrictions Tsinghua University
13:30-15:30 1101 Modular 4D Trajecto Management System under Pengpeng Guo Bohang Liang	Research Institute Sun A11.76 ry Prediction Framework for Flight Multiple RTA Restrictions Tsinghua University Tsinghua University
13:30-15:30 1101 Modular 4D Trajecto Management System under Pengpeng Guo Bohang Liang Zheng Fang	Research Institute Sun A11.76 ny Prediction Framework for Flight Multiple RTA Restrictions Tsinghua University Tsinghua University Tsinghua University
13:30-15:30 1101 Modular 4D Trajecto Management System under Pengpeng Guo Bohang Liang Zheng Fang Kan Yang	Research Institute Sun A11.76 ny Prediction Framework for Flight Multiple RTA Restrictions Tsinghua University Tsinghua University Tsinghua University Tsinghua University Tsinghua University
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13:30-15:30 1101 Modular 4D Trajecto Management System under Pengpeng Guo Bohang Liang Zheng Fang Kan Yang Qing Li 13:30-15:30 1103 Event-triggered Prect Law with Impact Angle Conse Qi Guo Yuxiang Nan Baokui Geng Zijian Ni Wei Wang 13:30-15:30 1104 基于积分终端滑模的 S	Research Institute Sun A11.76 ny Prediction Framework for Flight Multiple RTA Restrictions Tsinghua University Sun A11.77 defined-time Cooperative Guidance straint Beijing Institute of Technology Northwest Industries Group Company Ltd China North Industries Corp Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Technology Beijing Institute of Control SGCMG 伺服系统的抗干扰控制 Beijing Institute of Control
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	Engineering
13:30-15:30	Sun A11.79
1105 机载嵌入式实时	数据库索引技术研究
	AVIC Xi'an Flight Automatic
Xiaoyu Wang	Control Research Institute
	AVIC Xi'an Flight Automatic
Jiawei Gao	Control Research Institute
	AVIC Xi'an Flight Automatic
Wangfu Ma	Control Research Institute
13:30-15:30	Sun A11.80
1106 Progress and Pro	ospects of Object Detection Based on Few-
Shot Learning	· · · · · · · · · · · · · · · · · · ·
Shihong Li	Tsinghua University
Zhonghin Zhang	Tsinghua University
Pengpeng Guo	Tsinghua University
Kan Yang	Tsinghua University
Oing Li	Tsinghua University
12:20 15:20	
13.30-13.30	Sull ATT.81
1107 Multi-Agent Recu	Irrent Actor-Critic for Cooperative Decision-
Making in Within Visua	Range Air Compat
Can Chen	Beijing Institute of Technology
	Chengdu Aircraft Design and
Dengyu Yin	Research Institute
Li Mo	Beijing Institute of Technology
Maolong Lv	AirForce Engineering University
	Chengdu Aircraft Design and
Dan Lin	Research Institute
13:30-15:30	Sun A11.82
1108 Research on Dyr	namic Modeling and Control Method of
Twin-fuselage Aircraft	Considering Control Surface Fault
	AVIC First Aircraft Design and
Ma Xiaolei	Research Institute
	AVIC First Aircraft Design and
He Chao	Research Institute
	AVIC First Aircraft Design and
Liu Shimin	Research Institute
	AVIC First Aircraft Design and
Xue Yuan	Research Institute
	AVIC First Aircraft Design and
Fan Xiaohui	Research Institute
13:30-15:30	Sun A11.83
1111 Event-triggered s	trategy for network control system with
observer based on sta	te predictor
Xinije Chen	liangsu University of Technology
Boli	liangu University of Technology
Junije Zbao	liangeu University of Technology
Sulijie Zhao	
12:20 15:20	
13:30-15:30	Sun A11.84
1116 非常规布局 《机	0. 经系统终极备份力系研究
.	AVIC Xi' an Flight Automatic
Teng Ma	Control Research Institute
	AVIC Xi' an Flight Automatic
YunYu Bai	Control Research Institute
Dong Shan	AVIC Xi' an Flight Automatic

	Control Research Institute
	AVIC Xi' an Flight Automatic
JinLong Li	Control Research Institute
	AVIC Xi' an Flight Automatic
Peng Hei	Control Research Institute
13:30-15:30	Sun A11.85
1119 Parameter Modification	on of Hydraulic System Model
	AVIC Shenyang Aircraft Design
Jiang Nan	and Research Institute
	AVIC Shenyang Aircraft Design
Li Shu	and Research Institute
Zhao Yiran	Beihang University
Dong Shaopeng	Beihang University
13:30-15:30	Sun A11.86
1120 Adaptive fault-tolerar	nt time-varying attitude coordinated
control for completely distr	ibuted heterogenous minisatellite
formation	
Hao Liu	Beihang University
Deyuan Liu	Beihang University
Xinning Yi	Beihang University
Ruitao Fan	Beihang University
Shangheng Li	Beihang University
13:30-15:30	Sun A11.87
1122 Distributed constraint	ted optimization algorithm equipped
with nabla fractional dynan	nics
Shuaiyu Zhou	Southeast University
Xiaolin Hong	Southeast University
Xintong Ni	Southeast University
Yiheng Wei	Southeast University
13:30-15:30	Sun A11.88
1125 Models Integration fo Design	r Turbofan Engine Control System
Yining Yao	Tsinghua University
Kan Yang	Tsinghua University
Qing Li	Tsinghua University
13:30-15:30	Sun A11.89
1126 LiDAR-Based Visual	Inertial Odometry for High Altitude UA
	AVIC Xi' an Flight Automatic
Jiahang Dong	Control Research Institute
	AVIC Xi' an Flight Automatic
Hongjie Lei	Control Research Institute
	AVIC Xi' an Flight Automatic
Yazhou Yue	Control Research Institute
	AVIC Xi' an Flight Automatic
Qi Zhou	Control Research Institute
	AVIC Xi' an Flight Automatic
Xiaodong Zhang	Control Research Institute
	AVIC Xi' an Flight Automatic
Haoming Wang	Control Research Institute
	AVIC Xi' an Flight Automatic
Jinjiang Wang	Control Research Institute
	AVIC XI" an Flight Automatic
Haofeng Jiang	Control Research Institute

	Control Research Institute
13:30-15:30	Sun A11.90
1128 High-order Sliding-mode Dis	sturbance Observer based Fixed-
time Backstepping Control for Hy	personic Vehicles
	Northwestern Polytechnical
Ruixuan Liu	University
	Northwestern Polvtechnical
Aijun Li	University
	Northwestern Polytechnical
Changeing Wang	l Iniversity
12:30 15:30	Sup A11.01
1120 其工人工神经网络始由推进	刀星州球局华柱移动潜华力仕计
129 苯丁八工种经网络时电推过 去社	工生地场内少れ移机迫推力的目
	Cichuca University
	Sichuan University
	Sichuan University
Yuandong Ji	Sichuan University
13:30-15:30	Sun A11.92
1131 Autonomous UAV Exploration	on in Unknown Environments
Using Octomap	
Pei Chi	Beihang University
Jiahong Wei	Beihang University
Jiang Zhao	Beihang University
Yingxun Wang	Beihang University
13:30-15:30	Sun A11.93
1132 ALearnable and Mechanistic	c Framework for Long-term Time
Series Forecasting	
Yaqing Wu	Southeast University
Xiaovi Liu	Southeast University
Qi Shao	Southeast University
Duxin Chen	Southeast University
Wenwu Yu	Southeast University
13:30-15:30	Sun A11 94
1122 Space Non cooperative Ter	act Throat Accommont Mathad
Paged on Optimized Combination	
	Xidian University
	Xidian University
Pei Dai	Xidian University
	Beijing Space Vehicle Design
Hehe Guo	Department
E	Beijing Institute of Tracking and
Xiaoming Wang	Communication Technology
13:30-15:30	Sun A11.95
1135 Infrared Anti-jamming Algori	thm Based on Multi-source Data
Fusion	
	Northwestern Polytechnical
Shuang Du	University
	Northwestern Polytechnical
Wei Tang	University
	Northwestern Polytechnical
Jingxi Zhang	University
	Northwestern Polytechnical
Yupeng Gu	University
13:30-15:30	Sun A11 96
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MEMS Gyroscopes AVIC Xi'an Flight Automatic Yunkang Song Control Research Institute AVIC Xi'an Flight Automatic Yunjie Yang Control Research Institute AVIC Xi'an Flight Automatic Xin Yan Control Research Institute Shizhang Fan Northwestern University Zhongyang Yao Hunan University AVIC Xi'an Flight Automatic Gang Wang Control Research Institute 13:30-15:30 Sun A11.97 1139 ADistributed Bi-objective Shortest Path Algorithm with Pruning Techniques Shulei Zhou Southeast University Southeast University Yuanqiu Mo Jian qin Southeast University Wenwu yu Southeast University 13:30-15:30 Sun A11.98 1140 Fault-tolerant adaptive quantized control of strict-feedback nonlinear systems Xi'an Modern Control Technology Yajun Li Research Institute Xi'an Modern Control Technology Rui Pan **Research Institute** Xi'an Modern Control Technology Jinping Li Research Institute Xi'an Modern Control Technology Jiang Chang **Research Institute** Xi'an Modern Control Technology Dengwei Gao Research Institute 13:30-15:30 Sun A11.99 1150

	University of Science and
Wenhao Li	Technology of China
	University of Science and
Lihong Pei	Technology of China
	University of Science and
Lixue Zheng	Technology of China
	University of Science and
Kai Qi	Technology of China
	University of Science and
Yu Kang	Technology of China
	Hefei Comprehensive National
Zerui Li	Science Center
	University of Science and
Wenjun Lv	Technology of China
13:30-15:30	Sun A11.100

1152 Low-altitude penetration trajectory planning for UAV formation based on consistency-improved particle swarm algorithm

	AVIC, Chengdu Aircraft Design
Liang Tianjiao	and Research Institute
Qiao Gang	Chongqing University

1136 Research on Low Stress Packaging of High Precision

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Control Research Institute

13:30-15:30	Sun A11.106
1162 并联作动简驱动舵	面单液压抖动问题研究
	AVIC Shenyang Aircraft Design
Lei Zhang	and Research Institute
	AVIC Shenyang Aircraft Design
Zhongrui Zhao	and Research Institute
	AVIC Shenyang Aircraft Design
Yuliang Yang	and Research Institute
	AVIC Shenyang Aircraft Design
Zhenyu Liu	and Research Institute
	AVIC Shenyang Aircraft Design
Minghao Tai	and Research Institute
13:30-15:30	Sun A11.107
1163 Study on Pre-shift	Strategy of 3DHT Automatic Transmission
	Ningbo Geely Royal Engine
Yang Gao	Components Co., Ltd
	Ningbo Geely Royal Engine
Yiqiang Liu	Components Co., Ltd
	Ningbo Geely Royal Engine
Weishan Huang	Components Co., Ltd
	Ningbo Geely Royal Engine
Ruiguang Wang	Components Co., Ltd
	Ningbo Geely Royal Engine
Man Wang	Components Co., Ltd
	Ningbo Geely Royal Engine
Zheng Huang	Components Co., Ltd
	Ningbo Geely Royal Engine
Xueliang Shan	Components Co., Ltd
	FAW-Volkswagen Automotive Co.,
Li Liu	Ltd
	Remote Commercial Vehicle
Mingqi Gu	Technology Co., Ltd
13:30-15:30	Sun A11.108

1164 Study on the Fly-by-wire Flight Control System integrated HIRF/L Test Design and Compliance Method

	Shanghai Aircraft Design and
Zheng Zhao	Research Institute
	Shanghai Aircraft Design and
Jingzhou Zhao	Research Institute
	Shanghai Aircraft Design and
Jihai Ye	Research Institute
	Shanghai Aircraft Design and
Jizhi Wu	Research Institute
13:30-15:30	Sun A11.109
1170 Research on low cost spoofing implementation of GPS	

based on HackRF one	
Jiangfeng Lai	Space Engineering University
Xiangtai Ma	Space Engineering University
Yanfeng Hu	Space Engineering University
13:30-15:30	Sun A11.110
1171 Enhancing Spacecraft Safety through Formal Verification of	
Attitude Control Systems	

Chi Song Shanghai Jiao Tong University

	AVIC, Chengdu Aircraft Design
Wang Jingbo	and Research Institute
	AVIC, Chengdu Aircraft Design
Tie Yujia	and Research Institute
	AVIC, Chengdu Aircraft Design
Li Dao	and Research Institute
13:30-15:30	Sun A11.101
1153 Guidance law identifi	cation of incoming missiles based on
adaptive IMM-EKF	
	Chinese Aeronautical
Hua Wentao	Establishment Graduate School
	Chinese Aeronautical
Ji Shupeng	Establishment Graduate School
	AVIC Computing Technique
Hua Wenbo	Research Institute
	National Key Laboratory of Air-
	based Information Perception and
Tian Hongliang	Fusion
13:30-15:30	Sun A11.102
1155	
Yunjie Yang	Tsinghua University
Saite Zhang	Tsinghua University
Xiangyang Wang	Tsinghua University
Zhihui Du	Tsinghua University
Xiaming Yuan	Tsinghua University
Jinlai Deng	Tsinghua University
Wenan Liao	Tsinghua University
Jihong Zhu	Tsinghua University
13:30-15:30	Sun A11.103
1156 Fixed-time blended c	ontrol for agile missiles with the novel
multi-source control mode	
Jiaxun Ll	Beijing Institute of Technology
Jianqiao YU	Beijing Institute of Technology
13:30-15:30	Sun A11.104
1157 Design and realization	on of Excel-based UAV flight parameter
data decoding software	
	AVIC Xi'AN Flight Automatic
Jinshu Zhang	Control Research Institute
	AVIC Xi'AN Flight Automatic
Liang Fu	Control Research Institute
13:30-15:30	Sun A11.105
1158 Research on Multi-U.	AV Coordinated Strike Task Allocation
Based on Particle Swarm	Optimization
	Xi' an Modern Control Technology
Xun Yilin	Research Institute
	Xi' an Modern Control Technology
Ma Yunkai	Research Institute
	Institute of Industrial Hygiene of
Zhao Mengying	Ordnance Institute
	Xi' an Modern Control Technology
Xu Hang	Research Institute
	Xi' an Modern Control Technology
Wang Yike	Research Institute

Ma Shichao

AVIC Xi' an Flight Automatic
Zhuoyue Peng	Shanghai Jiao Tong University
Yang Hu	Shanghai Jiao Tong University
Jiaju Wang	Shanghai Jiao Tong University
Zhenyu Pang	Shanghai Jiao Tong University
Qiang Shen	Shanghai Jiao Tong University
13:30-15:30	Sun A11.111

1172 Study on Aerospace Equipment System Information Support Effectiveness Bottleneck

	Beijing Institute of Control
Shaokai Wang	Engineering
	China Academy of Space
Ke Long	Technology
	Beijing Institute of Control
Hong Wang	Engineering
	Beijing Aerospace Automatic
Tao Xue	Control Research Institute
13:30-15:30	Sun A11.112
1175 Multi-objective optin	nization path planning algorithm for
manned robot based on l	JVND-ACO
Qingji Gao	Civil Aviation University of China
Liangliang She	Civil Aviation University of China
Haoming Li	Civil Aviation University of China
13:30-15:30	Sun A11.113

1185 Collaborative Pursuit Method for Unmanned Ground Vehicle Formations Based on Leader-Follower

	Nanjing University of Aeronautics
Yunrui Li	and Astronautics
	Nanjing University of Aeronautics
Xunhong Lv	and Astronautics
	Nanjing University of Aeronautics
Cheng Ni	and Astronautics
	Nanjing University of Aeronautics
Wenjie He	and Astronautics
	Nanjing University of Aeronautics
Changhao Zheng	and Astronautics
	Nanjing University of Aeronautics
Zehui Mao	and Astronautics

 13:30-15:30
 Sun A11.114

 1187 Research on Mathematical Modeling Method of Tilt-Rotor

 Aircraft

 Qiang Chen

 AVIC Xi' an Flight Automatic

 AVIC Xi' an Flight Automatic

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Ning Zhang	Control Research Institute
	AVIC Xi' an Flight Automatic
Lulu Xue	Control Research Institute
	AVIC Xi' an Flight Automatic
Zefeng Chen	Control Research Institute
13:30-15:30	Sun A11.115
1188 A SLAM Loop Closur	e Detection Method That Fuses Visual
and 3D Laser Information	
Qingji Gao	Civil Aviation University of China
Yunyan Li	Civil Aviation University of China

Civil Aviation University of China

Xuanyao Jia

13:30-15:30	Sun A11.116	
1192 A Data-Driven Approach to Fault-Tolerant Information		
Redundancy for Aircraft		
Jie Zhong	Sichuan University	
Heng Zhang	Sichuan University	
Qiang Miao	Sichuan University	
13:30-15:30	Sun A11.117	
1193 Model Predictive Control for Spacecraft Attitude		
Reorientation Using Deep Koopman Operator		
Wenhao Zhang	Sichuan University	
Bin Li	Sichuan University	
Mingming Shi	Sichuan University	
13:30-15:30	Sun A11.118	
1194 基于分布式扩张状态观测器的多飞行器编队控制		
	Northwestern Polytechnical	
Xianzhi Wang	University	
	Northwestern Polytechnical	
Guofei Li	University	
	Northwestern Polytechnical	

 Yanan Chang
 University

 13:30-15:30
 Sun A11.119

 1195 Dynamics Modeling and Analysis of Hose Whipping

 Phenomenon in the Hose Dregue Active Definition Outcome if the Hose Dregue Active Definition Outcome in the Hose Defini

Phenomenon in the Hose-Drogue Aerial Refueling System with Variable Length

	Northwestern Polytechnical
Zehua Zhang	University
	Northwestern Polytechnical
Wenbi Zhao	University
	Northwestern Polytechnical
Zimeng Wu	University
	Northwestern Polytechnical
Su Yang	University
	Northwestern Polytechnical
Yaohong Qu	University
13:30-15:30	SunA11.120
1196 考虑攻击时间和角度约束的预	后定时间收敛协同制导方法
Yanan Chang	Northwestern Polytechnical
	University
Xianzhi Wang	Northwestern Polytechnical
	University
Guofei Li	Northwestern Polytechnical
	University
13:30-15:30	Sun A11.121

1197 通信降级下的集群协同任务局部重分配

Pengyong Fu	Nanjing University Of Aeronautics
	And Astronautics
Yanli Du	Nanjing University Of Aeronautics
	And Astronautics
Yanbin Liu	Nanjing University Of Aeronautics
	And Astronautics
Yueping Wang	AVIC Xi'AN Flight Automatic
	Control Research Institute
Yunyan WU	AVIC Xi'AN Flight Automatic
	Control Research Institute

13:30-15:30	Sun A11.122	Jiale Li
1198 Distributed Shape	Control of a Multi-Segment Continuum	
Arm with Bending Angle	e Constraint	Guofei
Zhiqiang Ai	AVIC Shenyang Aircraft Design	
	and Research Institute	13:30-1
Xiaozhi Dou	AVIC Shenyang Aircraft Design	1210 Opt
	and Research Institute	based on
Yang Wang	AVIC Shenyang Aircraft Design	Wench
	and Research Institute	
Honghao Yu	University of Science and	Yaoyu
	Technology Beijing	
Zhiji Han	University of Science and	Yang Y
	Technology Beijing	Jianlin
13:30-15:30	Sun A11.123	
1201 输出跟踪的空间馈	责性传感器参考质量自适应切换控制	13:30-1
Xiaoyun Sun	Nanjing University Of Aeronautics	1212 UA
	And Astronautics	Confiden
Qianyun Zhang	Shanghai Jiao Tong University	Weijian
Qiang Shen	Shanghai Jiao Tong University	Zhihon
Shufan Wu	Shanghai Jiao Tong University	Li Ming
13:30-15:30	Sun A11.124	
1204 基于强化学习方法	长的多智能体追逃博弈任务分配	Liang Z
Shangheng Li	Beihang University	
Hao Liu	Beihang University	13:30-1
Ziming Ren	Beihang University	1214 Red
Yafan Li	China Research and Development	Sentence
	Academy of Machinery Equipment	Zenglin
Dawei Liu	China Research and Development	
	Academy of Machinery Equipment	
13:30-15:30	Sun A11.125	Yujie C
1206 博弈环境下的多无	三人机系统协同路径规划	
Ruitao Fan	Beihang University	
Hao Liu	Beihang University	Xinyu Z
Ming Cheng	Beihang University	
Chaoqun Ma	China Research and Development	
	Academy of Machinery Equipment	Wenfer
Dawei Liu	China Research and Development	
	Academy of Machinery Equipment	Bo Li
13:30-15:30	Sun A11.126	
1207 Predefined-time D	istributed Space-constrained Cooperative	
Guidance Law		13:30-1
Zhichen Yu	Beijing Institute of Technology	1215 Dis
Peng Huang	Northwest Industries Group	Systems
	Company Ltd	Gysterns
Shiyao Lin	China Research and Development	Actuated
	Academy of Machinery Equipment	Cheng
Hongyan Zhang	Beijing Institute of Technology	
Bailin Chen	Beijing Institute of Technology	Ruiyun
13:30-15:30	Sun A11.127	
1208 基于自适应动态规	冠划的多飞行器编队控制方法	13:30-1
Jie Xiao	Northwestern Polytechnical	1221 Hie
	University	Unsuper
Qingpu Tang	Northwestern Polytechnical	Jieying
	University	Qi Shao

Jiale Li	Northwestern Polytechnical
	University
Guofei Li	Northwestern Polytechnical
	University
13:30-15:30	Sun A11.128
1210 Optimized Cascad	le Control Strategy for Bi-copter UAV
based on Fuzzy-PID and	d ADRC
Wenchao Li	Northwestern Polytechnical
	University
Yaoyu Liu	Northwestern Polytechnical
	University
Yang Yu	Shanghai Jiao Tong University
Jianlin Chen	Northwestern Polytechnical
	University
13:30-15:30	Sun A11.129
1212 UAV Visual Naviga	ation Algorithm Based on Feature
Confidence-Driven Atter	ntion Redistribution
Weijian Zhang	Beijing Institute of Technology
Zhihong Deng	Beijing Institute of Technology
Li Ming	Beijing Institute of Automation
	Control Equipment
Liang Zhao	Beijing Institute of Automation
	Control Equipment
13:30-15:30	Sun A11.130
1214 Recommendation	of Small-Sample Indicator Based on
Sentence-BERT	
Zenglin Li	School of Electronics And
	Information Northwestern
	Polytechnical University
Yujie Cui	School of Electronics And
	Information Northwestern
	Polytechnical University
Xinyu Zhang	School of Electronics And
	Information Northwestern
	Polytechnical University
Wenfeng Wu	National Defense University PLA
	China
Bo Li	School of Electronics And
	Information Northwestern
	Polytechnical University
13:30-15:30	Sun A11.131
1215 Distributed Conse	ensus Control of Nonlinear Multi-Agent
Systems with Unknow	wn Parameters: A High Order Eully
Actuated System Approa	ach
Cheng He	Nanjing University of Aeronautics
	and Astronautics
Ruiyun Qi	Nanjing University of Aeronautics
	and Astronautics
13:30-15:30	Sun A11.132
1221 Hierarchical Invari	ant Graph Contrastive Learning for
Unsupervised Graph Cla	assification
Jieying Qian	Southeast University
Qi Shao	Southeast University
	•

Duxin Chen	Southeast University	
Wenwu Yu	Southeast University	
13:30-15:30	Sun A11.133	
1222 On Thermal Characteristi	c Experiment of High-Pressure	
Pipeline in Civil Aircraft Hydrau	lic Systems	
Jianwei Hu	Shanghai Aircraft Design and	
	Research Institute	
Qiang Liu	Shanghai Aircraft Design and	
	Research Institute	
Zhang Luo	Shanghai Aircraft Design and	
	Research Institute	
13:30-15:30	Sun A11.134	
1224 Safety Analysis of China-	made Civil Aircraft Fly-by-Wire	
Control System from the Persp	ective of Test Pilots	
Xin Tian	Northwestern Polytechnical	
	University	
Zhan Hao	Northwestern Polytechnical	
	University	
Guo Yongguan	Northwestern Polytechnical	
551	University	
Liu Yan	AVIC Flight Automatic Control	
	Research Institution	
Meng Yang	AVIC Flight Automatic Control	
mong rung	Research Institution	
13:30-15:30	Sun A11 135	
1228 Energy-based Range Aug	mentation Analysis for Maneuver-	
Assisted Jumping-Glide Traject	ony Design	
Yuankai Li	University of Electronic Science	
	and Technology of China	
Lianxing Wang	University of Electronic Science	
	and Technology of China	
Ju Tang	University of Electronic Science	
ouriang	and Technology of China	
Gun Li	University of Electronic Science	
Guile	and Technology of China	
13:30-15:30	Sun A11 136	
13:30-13:30	Sull ATT. 150	
Softwara	s Generation Method for Seeker	
Jing Ao Shi		
Boiboi Vin	Boihang University	
	Beihang University	
	Beihang University Beihang University Beihang University	
Qing Cai	Beihang University Beihang University Beihang University	
Qing Cai 13:30-15:30	Beihang University Beihang University Beihang University Sun A11.137	
Qing Cai 13:30-15:30 1231 Research on Comprehent	Beihang University Beihang University Beihang University Sun A11.137 sive Test Standards for UAV	
Qing Cai 13:30-15:30 1231 Research on Comprehent swarms	Beihang University Beihang University Beihang University Sun A11.137 sive Test Standards for UAV	
Qing Cai 13:30-15:30 1231 Research on Comprehens swarms Zhikai He	Beihang University Beihang University Beihang University Sun A11.137 Sive Test Standards for UAV China Aviation Integrated	
Qing Cai 13:30-15:30 1231 Research on Comprehent swarms Zhikai He	Beihang University Beihang University Beihang University Sun A11.137 Sive Test Standards for UAV China Aviation Integrated Technology Research Institute	
Qing Cai 13:30-15:30 1231 Research on Comprehent swarms Zhikai He 13:30-15:30	Beihang University Beihang University Beihang University Sun A11.137 sive Test Standards for UAV China Aviation Integrated Technology Research Institute Sun A11.138	
Qing Cai 13:30-15:30 1231 Research on Comprehent swarms Zhikai He 13:30-15:30 1233 Multi-UAV Formation Main	Beihang University Beihang University Beihang University Sun A11.137 Sive Test Standards for UAV China Aviation Integrated Technology Research Institute Sun A11.138 Intenance with Nonlinear Model	
Qing Cai 13:30-15:30 1231 Research on Comprehents swarms Zhikai He 13:30-15:30 1233 Multi-UAV Formation Main Predictive Control Method	Beihang University Beihang University Beihang University Sun A11.137 Sive Test Standards for UAV China Aviation Integrated Technology Research Institute Sun A11.138 Intenance with Nonlinear Model	
Qing Cai 13:30-15:30 1231 Research on Comprehents swarms Zhikai He 13:30-15:30 1233 Multi-UAV Formation Main Predictive Control Method Gang Ke	Beihang University Beihang University Beihang University Sun A11.137 Sive Test Standards for UAV China Aviation Integrated Technology Research Institute Sun A11.138 Intenance with Nonlinear Model Northwestern Polytechnical	
Qing Cai 13:30-15:30 1231 Research on Comprehents swarms Zhikai He 13:30-15:30 1233 Multi-UAV Formation Main Predictive Control Method Gang Ke	Beihang University Beihang University Beihang University Sun A11.137 Sive Test Standards for UAV China Aviation Integrated Technology Research Institute Sun A11.138 Intenance with Nonlinear Model Northwestern Polytechnical University	
Qing Cai 13:30-15:30 1231 Research on Comprehents swarms Zhikai He 13:30-15:30 1233 Multi-UAV Formation Main Predictive Control Method Gang Ke Jinxi Lang	Beihang University Beihang University Beihang University Sun A11.137 Sive Test Standards for UAV China Aviation Integrated Technology Research Institute Sun A11.138 Intenance with Nonlinear Model Northwestern Polytechnical University Northwestern Polytechnical	
Qing Cai 13:30-15:30 1231 Research on Comprehents swarms Zhikai He 13:30-15:30 1233 Multi-UAV Formation Main Predictive Control Method Gang Ke Jinxi Lang	Beihang University Beihang University Beihang University Sun A11.137 Sive Test Standards for UAV China Aviation Integrated Technology Research Institute Sun A11.138 Intenance with Nonlinear Model Northwestern Polytechnical University Northwestern Polytechnical University	

	University
Yan Li	Northwestern Polytechnical
	University
13:30-15:30	Sun A11.139
1236 Robust Drogue I	Distance Estimation Method Based on
YOLOv3 and Linear R	egression Algorithm
Ziming Liu	AVIC Xi'an Flight Automatic
	Control Research Institute
Chunxin Wang	AVIC Xi'an Flight Automatic
	Control Research Institute
Weijia Wang	AVIC Xi'an Flight Automatic
	Control Research Institute
13:30-15:30	Sun A11.140
1237 Research and A	pplication of Flipped Classroom Teaching
Mode in Automatic Co	ntrol Theory
Suoxia Miao	Nanchang Institute of Technology
Housheng Su	Huazhong University of Science
	and Technology
13:30-15:30	Sun A11.141
1239 Enhanced State	Estimation for Cruise Missiles Navigation: A
BDS-Aided VIO Appro	ach
Zhiming Gao	School of Aerospace Engineering,
	Beijing Institute of Technology
Hanyue Li	School of Aerospace Engineering,
	Beijing Institute of Technology
Junhui Liu	School of Aerospace Engineering,
	Beijing Institute of Technology
Qirui Yang	National Key Laboratory of
	Information Systems Engineering
Jianan Wang	School of Aerospace Engineering,
	Beijing Institute of Technology
Jiayuan Shan	School of Aerospace Engineering,
	Beijing Institute of Technology
13:30-15:30	Sun A11.142
1242 Research and D	evelopment of Target Registration and
Tracking for Multi-sour	ce Information Fusion
Zenan He	Zhejiang University
Jingbao Lu	Zhejiang University
Yuhao Shi	Zhejiang University
Zhitao Liu	Zhejiang University
Hongye Su	Zhejiang University
13:30-15:30	Sun A11.143
1245 Inertial-Geomag	netic Integrated Navigation Method based
on Kalman filter and A	daptive search area
Qinghua Luo	Harbin Institute of Technology
Boyuan Liu	Harbin Institute of Technology
Mutong Yu	Harbin Institute of Technology
Yuhao Su	Harbin Institute of Technology
Longxin Yang	Harbin Institute of Technology
Lan Wang	Harbin Institute of Technology
13:30-15:30	Sun A11.144
1255 SERF 原子耦合	藏强计抽运光功率误差分析
Jiale Quan	Beihang University

Ye Liu	Beihang University	
Longyan Ma	Beihang University	
Wenfeng Fan	Beihang University	
Wei Quan	Beihang University	
13:30-15:30	Sun A11.145	
1258 基于误差累积因子的高。	超声速飞行器渐进控制	
Shui Lang	Xi'an University Of Technology	
Guangle Gao	Xi'an University Of Technology	
Xiaolei Qu	Northwestern Polytechnical	
	University	
Yajun Li	Xi'an Modern Control Technology	
	Research Institude	
13:30-15:30	Sun A11.146	
1262 A Fault Data Generation	n method for Enhanced Fault	
Diagnosis Based on PCA-DD	PM-CNN Models	
PengchaoWang	Beihang University	
HaoxinGu	Beihang University	
YujieCheng	Beihang University	
LixiangJiang	Shenhua China	
13:30-15:30	Sun A11.147	
1264 面向复杂低空扰动的倾斜	转旋翼机悬停鲁棒控制策略	
Xin Jin	AVIC Xi'AN Flight Automatic	
	Control Research Institute	
Jiaming Wei	AVIC Xi'AN Flight Automatic	
	Control Research Institute	
Siyuan He	Northwestern Polytechnical	
	University	
Liang Fu	AVIC Xi'AN Flight Automatic	
	Control Research Institute	
Lin Wang	AVIC Xi'AN Flight Automatic	
	Control Research Institute	
13:30-15:30	Sun A11.148	
1270 A pre-training method for motor fault diagnosis based on		
Siamese residual network		
Wang Gaowei	Beihang University	
Zhou An	Beihang University	
Zeng Jiyan	Beihang University	
Cheng Yujie	Beihang University	
Jiang Lixiang	Shenhua China	
13:30-15:30	Sun A11.149	
1271 Fault Diagnosis of Adva	nced Layout UAVs Based on Neural	
Networks and Adaptive Obser	rvers	
Kaizhao Xu	Nanjing University of Aeronautics	
	and Astronautics	
Tianxing Xu	Nanjing University of Aeronautics	
	and Astronautics	
Yaqin Li	Nanjing University of Aeronautics	
	and Astronautics	
13:30-15:30	Sun A11.150	
1272 Incremental Dynamic In	version Adaptive Control of Coaxial	
High-speed Helicopter Based	on Neural Network	
Yaqin Li	Nanjing University of Aeronautics	
	and Astronautics	
Mengmeng Lv	Nanjing University of Aeronautics	

	and Astronautics
Kaizhao Xu	Nanjing University of Aeronautics
	and Astronautics
13:30-15:30	Sun A11.151
1273 TBCC 发动机模态	转换性能优化方法研究
Haoliang Zhang	Nanjing University of Aeronautics
	and Astronautics
Jian Lu	Nanjing University of Aeronautics
	and Astronautics
Yiqun Wang	Nanjing University of Aeronautics
	and Astronautics
13:30-15:30	Sun A11.152
1274 自适应动力与热管	等理系统多目标智能控制方法研究
Jiacheng Zheng	Nanjing University of Aeronautics
	and Astronautics
Si Gao	Nanjing University of Aeronautics
	and Astronautics
Jian Lu	Nanjing University of Aeronautics
	and Astronautics
13:30-15:30	Sun A11.153
1275 基于改进特征点热	是取的多传感器融合建图方法
Guochen Niu	Civil Aviation University of China
Xiangyu Luan	Civil Aviation University of China
13:30-15:30	Sun A11.154
1279 Time-coordination	Entry Guidance for Unpowered Gliding
Morphing Aircrafts Usin	g Deep Neural Networks
Ziqi Xu	Beihang University

Jialin Zhu	China Academy of Launch vehicle
	Technology
Shengping Gong	Beihang University
Tianren Li	China Academy of Launch vehicle
	Technology

	13:30-15:30	Sun A11.155
	1282 Analysis of the i	nfluence of map resolution on scene
Beihang University	matching accuracy	
Beihang University	Bowen Li	Nanjing University of Aeronautics
Beihang University		and Astronautics
Beihang University	Qinghua Zeng	Nanjing University of Aeronautics
Shenhua China		and Astronautics
Sun A11.149	Yineng Li	Nanjing University of Aeronautics
anced Layout UAVs Based on Neural	U U	and Astronautics
ervers	Zigi Jin	Nanjing University of Aeronautics
Nanjing University of Aeronautics		and Astronautics
and Astronautics	Zhi Xiona	Naniing University of Aeronautics
Nanjing University of Aeronautics	- 5	and Astronautics
and Astronautics	Pena Zhuo	Naniing University of Aeronautics
Nanjing University of Aeronautics	. ong 2000	and Astronautics
and Astronautics	13.30-15.30	Sun A11 156
Sun A11.150	1286 A Dunamia E	Event Triggering Englosing Control for
version Adaptive Control of Coaxial	1200 A Dynamic E	event inggening Enclosing Control for
on Neural Network	Multirobot Systems	With Angle Constraints Using Bearing
Nanjing University of Aeronautics	Measurements	
and Astronautics	Tengda Liu	Liaoning University of Technology
Nanjing University of Aeronautics	Yongming Li	Liaoning University of Technology

13.30-15.30	Sun &11 157
1290 Reinforcement Learn	ing based Attitude Tracking Control of
I Inmanned Aerial Vehicles	with Prescribed Performance
Weining Huang	Shenvang Aircraft Design and
violining Hourig	Research Institute
Dapeng Yang	Shenvang Aircraft Design and
Dapeng Tang	Besearch Institute
Mon Zhong	Shonyong Aircraft Dooign and
Man Zhang	Bossareh Institute
Vicovo Mong	Shanyang Aircraft Dagign and
Alabye Wang	
40-00 45-00	
13:30-15:30	Sun A11.158
1294 Cooperative Anti-dist	urbance for Spacecraft Cluster Attitude
Control under Dynamic To	sology
Shaohui Li	Beihang University
Pengfei Xia	Beihang University
Jianzhong Qiao	Beihang University
13:30-15:30	Sun A11.159
1301 Study on the lever-ar	m and unsteady effects on
measurements of angle of	attack in takeoff and landing phases
ZhongyongZou	Chengdu Aircraft Design and
	Research Institute
ShuangshuangYan	Chengdu Aircraft Design and
g	Research Institute
GangFeng	Chengdu Aircraft Design and
	Research Institute
SaihuPu	Chengdu Aircraft Design and
	Research Institute
GuanjiangGuo	Chengdu Aircraft Design and
	Research Institute
13:30-15:30	Sun A11.160
1302 Design of ESO-LQR	Based Control Law for a VTOL
Cooperative Twin-Mother I	JAV
Yining Zhao	Beihang University
Song Wang	Beibang University
Tongrui Chen	Beihang University
Zhivang Ma	Beihang University
Konstantin Lelkov	Moscow Aviation Institute
12:20 15:20	
13.30-13.30	Sun ATT.161
1304 Fixed-time Silding M	Sue Autuue Cooperative Control of
Satellite Formation System	With Cross-coupling Method
Yinnao Ju	Harbin Institute of Lechnology
	Harbin Institute of Technology
Feilong Tang	Harbin Institute of Technology
Yiming Wang	Harbin Institute of Technology
13:30-15:30	Sun A11.162
1305 飞控舵机模型监控策	略的虚拟故障验证技术研究
Zhongrui Zhao	AVIC Shenyang Aircraft Design
	and Research Institute
Zehua Ge	AVIC Shenyang Aircraft Design
	and Research Institute
Zhijun Song	AVIC Shenyang Aircraft Design
	and Research Institute
Zhiming Yan	Beihang University
-	5

Jianing Luo	AVIC Shenyang Aircraft Desig
	and Research Institu
13:30-15:30	Sun A11.1
1307 A Gravity Matching	Area Selection Method Based on GA
Bagging-SVM	
Wenzhe Zhang	Beijing Institute of Technolo
Zhengwei Sun	Beijing Institute of Technolo
Zhihong Deng	Beijing Institute of Technolo
13:30-15:30	Sun A11.
1308 Dynamic SLAM Alg	gorithm for Semantic-Driven Unmanne
Platforms in Multi-Factor	Environments
Jingyi Wei	Nanjing University of Science a
	Technolo
Zhenpeng Yin	Nanjing University of Science a
1 0	Technolo
Jiajun Lin	Nanjing University of Science a
	Technolo
Hongvang Bai	Naniing University of Science a
	Technolo
Yuman Yuan	Naniing University of Science a
raman raan	Technolo
Xiaochuan Zhao	Beijing Institute of Computer a
Aldochdan Zhao	Electronics Application
linzhu Shi	Boiiing Institute of Computer a
12:20 15:20	
13.50-15.50	based Menagular Visual Obstacla
Localization Method for	
Vaniun Mana	Poiiing Institute of Technolo
	Beijing Institute of Technolo
lionvin Zhong	Beijing Institute of Technolo
	Selling Institute of Technolo
Zeyang Kie	
lia alia a a Qua	Research institute of Taskasla
	Beijing Institute of Technolog
	Beijing institute of Technolo
13:30-15:30	Sun A11.1
1318 学科公共实验平台	融入本科实验教学的研究
I ing Zhang	Beijing Institute of Technolog
13:30-15:30	Sun A11.1
1326 软管式空中加油系	统锥套运动特性分析及对接控制综述
Tuo Gou	GraduateSchoolofChineseAerona
	ticalEstablishme
Kun Liang	Chinese Aeronautio
	Establishme
Во Ма	Chinese Aeronaution
	Establishme
Rui Wang	Chinese Aeronautio
	Establishme
Tian Yin	GraduateSchoolofChineseAeron
	ticalEstablishme
	liouiEolubiloiiiilo

Yuelong Wang Harbin Institute of Technology

Songyan Wang	Harbin Institute of Technology
Tao Chao	Harbin Institute of Technology
13:30-15:30	Sun A11.169
1332 Three-Dimensional F	Prescribed-Time Cooperative
Guidance Law With Impact Angle	e Constraint
Hongru Ning	Beijing Institute of Technology
Yongzhi Sheng	Beijing Institute of Technology
13:30-15:30	Sun A11.170
1333 Dynamics Modeling and La	ateral Stability Control of Rotary
Wing Aerial Recovery UAV	
Guocheng Yan	Beihang University
Honglun Wang	Beihang University
Yanxiang Wang	Beihang University
13:30-15:30	Sun A11.171
1335 Attitude Control of Launch	Vehicles through Observer-Based
Model Predictive Control	
Yan Meng	Beihang University
Xiang Yu	Beihang University
Jianzhong Qiao	Beihang University
Yukai Zhu	Beihang University
13:30-15:30	Sun A11.172
1338 FCU2C:Engine blade crack	detection method based on U2-
Net and Canny	
Anqi Zhang	Beihang University
Yue Zhao	Beihang University
Hongwei Chu	Shanxi Zhidian Technology Co.,
	Ltd
Yujin Feng	Shanxi Zhidian Technology Co.,
	Ltd
Li Fu	Beihang University
Yuwei Liu	Beihang University
13:30-15:30	Sun A11.173
1339 Zero-Sideslip Roll Maneuv	er Stability Analysis Based
Extended Bifurcation Analysis of	a Tailless Fighter
Yun Jiang	Beihang University
Daochuan Li	Beihang University
Zi Kan	Beihang University
Bohao Dong	Beihang University
Chong Zhen	AVIC Shenyang Aircraft Design
	and Research Institute
13:30-15:30	Sun A11.174
1341 The design and verification	of a novel combined load
simulator for the servomechanisi	m of spacecrafts with gimbaled
engine	
Xiaodong Zhou	Beijing Institute of Control
	Engineering
Daning Zhou	Beijing Institute of Control
	Engineering
Yucong Xiong	Beijing Institute of Control
	Engineering
Baohe Shao	Beijing Institute of Control
	Engineering
Jingchao Zhao	Beijing Institute of Control

	Engineering
13:30-15:30	Sun A11.175
1343 Modeling Method about G	Gyro Error Dynamics with
Multiphysics coupling Based or	n Sparse Identification of Nonlinear
Dynamics	
Haoyang Li	Beihang University
Yanping Zhang	CNPC Engineering Technology
	R&D Campany Litmited
Haoling Yin	National Engineering Research
	Center of Oil & Gas Drilling and
	completion Technology
Lingling Wang	Beihang University
Li Fu	Beihang University
13:30-15:30	Sun A11.176
1344 Two-Level Volt/Var Contro	ol in Distribution Network Based on
Partition Method Considering C	Syberattacks
He Zhang	Southeast University
Wenwu Yu	Southeast University
Hongzhe Liu	Southeast University
Zeci Chen	Southeast University
13:30-15:30	Sun A11.177
1346 Global 3D Orientation Co	ntrol of a Multibody System using
DDDO hand an Orwinnela' Of	
DDPG based on Squirreis Stra	ategy for Safe Landing while the
Bodies Tumbling in Air	
Tianqi Ma	Tsinghua University
Tao Zhang	Tsinghua University
13:30-15:30	Sun A11.178
1347 面向无线电导航系统的 M	IBSE 应用研究
Yangkang Zhang	AVIC Xi'AN Flight Automatic
	Control Research Institute
SunB1	3rd Floor Meeting Room 305
Evolution GNC	3 层会议室 305
Chairs: Zhi Xiong	Nanjing Univ. of Aeronautics
	and Astronautics
Yinghuang Liu	Nanchang Hangkong Univ.
15:50-15:58	SunB1.1
177 Research on Multi domai	n Joint Reconnaissance of UVA
Swarm	
Mingqiu Ren	Air Force Early Warning Academy
Bingqie Wang	Air Force Early Warning Academy
Yi Leng A	Air Force Early Warning Academy
15:58-16:06	SunB1.2
181 Adaptive Fuzzy Tracking	g Control for MIMO Nonlinear
Systems with Sensor Faults	-
Junhao Yuan	Liaocheng Univ.
Wei Sun	Liaocheng Univ.
16:06-16:14	SunB1.3
186 A Novel Relative Navigation	n Method for Aerial Refueling with
INS and Triple-frequency BDS	
	Naniing Univ, of Aeronautics and

Nanjing Univ. of Aeronautics and

Astronautics

Yongrong Sun

Kedong Zhao	Nanjing Univ. of Aeronautics and
	Astronautics
Yao Li	Nanjing Univ. of Aeronautics and
	Astronautics
Shuchon Yu	Nanjing Univ. of Aeronautics and
Shuchen Xu	Astronautics
16:14-16:22	SunB1.4
209	协同导航方法
Chenfa Shi	Nanjing Univ. of Aeronautics and
Chema Shi	Astronautics
Zhi Yiong	Nanjing Univ. of Aeronautics and
	Astronautics
Yu liong	Nanjing Univ. of Aeronautics and
Au Jiang	Astronautics
Oiiio Li	Nanjing Univ. of Aeronautics and
	Astronautics
16:22-16:30	SunB1.5
289 Research on Aircraft Fire	power Distribution Problem based
on Improved Chaotic Adaptive	e Genetic Algorithm
Wei Ben	Army Academy of Artillery and Air
WeiFall	Defense
Wonyu Dong	Army Academy of Artillery and Air
wenyu Dong	Defense
Fong Liveng	Army Academy of Artillery and Air
Feng Huang	Defense
	Army Academy of Artillery and Air
Sili Liu	Defense
	Army Academy of Artillery and Air
wei Pan	Defense
	Army Academy of Artillery and Air
wenyu Dong	Defense
16:30-16:38	SunB1.6
294 UAV swarm cooperative	navigation Technology in partial

GNSS-denied Environment

Siying Lin	Nanjing Univ. of Aeronautics and
	Astronautics
Feng Yu	Nanjing Univ. of Aeronautics and
	Astronautics
Zijun Zhou	Nanjing Univ. of Aeronautics and
	Astronautics
Chenyang Li	Nanjing Univ. of Aeronautics and
	Astronautics
16:38-16:46	SunB1.7

348 Landmark-based Multi-sensor Fusion SLAM Algorithm for Autonomous Positioning in GNSS-denied Environments

Menamena Shena	Nanjing Univ. of Aeronautics and
Mengineng Sheng	Astronautics
Rong Wang	Nanjing Univ. of Aeronautics and
Nong Wang	Astronautics
lingvin Zhao	Nanjing Univ. of Aeronautics and
Singxin Zhao	Astronautics
Zhi Xiong	Nanjing Univ. of Aeronautics and
Zhi Xiong	Astronautics
Jianye Liu	Nanjing Univ. of Aeronautics and

Astronautics

16:46-16:54	SunB1.8
422 A Visual-Inertial Localization Method Base	d on Motion
Feature Constraints	

Yanfei Li	Nanjing Univ. of Aeronautics and
	Astronautics
Zhi Xiong	Nanjing Univ. of Aeronautics and
	Astronautics
Jingqi Wang	Nanjing Univ. of Aeronautics and
	Astronautics
Guanhong Gao	Nanjing Univ. of Aeronautics and
	Astronautics
16:54-17:02	SunB1.9

 16:54-17:02
 Su

 677 Particle Swarm Optimization-based Extreme Learning

Machine for Ground Targets Threat Assessment

Yunfeng Zhao	Nanjing Univ. of Science &	
	Technology	
Xingxiu Li	Nanjing Univ. of Science &	
	Technology	
Panlong Wu	Nanjing Univ. of Science &	
	Technology	
Xiangmin Wang	Nanjing Univ. of Science &	
	Technology	
Olong Cuo	Zhengzhou Institute of Science and	
	Technology	
17:02-17:10	SunB1.10	
758 Robust attitude tracking control of Quadrotor UAV based on		
adaptive super-twist sliding mode method		
Yinghua Wu	Linyi Univ.	
Ancai Zhang	Linyi Univ.	
Xiao Liang	Linyi Univ.	
Xinghui Zhang	Linyi Univ.	
Wenbo Zheng	Linyi Univ.	
17:10-17:18	SunB1.11	

765 Event-triggered Sliding Mode Control of Collaborative Space Robots for In-Space Assembly

Le Zhang	Nanjing Univ. of Aeronautics and
	Astronautics
Shidong Xu	Nanjing Univ. of Aeronautics and
	Astronautics
Hao Wen	Nanjing Univ. of Aeronautics and
	Astronautics
17:18-17:26	SunB1.12

1166 有限时间收敛的自适应滑模协同末制导

Shaowei Huang	Nanjing Univ. of Aeronautics and
	Astronautics
Yanli Du	Nanjing Univ. of Aeronautics and
	Astronautics
Yanbin Liu	Nanjing Univ. of Aeronautics and
	Astronautics
Yueping Wang	AVIC Xi' an Flight Automatic
	Control Research Institute
Wu Liu	AVIC Xi' an Flight Automatic
	Control Research Institute

17:26-17:34	SunB1.13
1592 Force Control of Manipulat	ion Loading System with
Spherical Actuator	
Yinghuang Liu	Nanchang Hangkong Univ.
Zhi Lu	Nanchang Hangkong Univ.
Rui Hou	Nanchang Hangkong Univ.
17:34-17:42	SunB1.14
1606 Optimization and Control of	f Spherical Actuator Manipulation
Loading System	
Yinghuang Liu	Nanchang Hangkong Univ.
Rui Hou	Nanchang Hangkong Univ.
Zhi Lu	Nanchang Hangkong Univ.
17:42-17:50	SunB1.15
1687 Quad-Rotor Collision Avoid	dance via Sequential Convex
Programming with Reference Co	prrection
Tianhao Liu	Beijing Institute of Technology
Runqi Chai	Beijing Institute of Technology
Senchun Chai	Beijing Institute of Technology
SunB2	3rd Floor Meeting Room 306
Flight gnc	3 层会议室 306
Chairs: Siyuan Wang	Beihang Univ.
Ge Dong	Tsinghua Univ.
15:50-15:58	SunB2.1
273 Effectiveness Evaluation	Analvsis of UAV Swarm
Honevcomb Launch Svstem	
Wei Yang	Shaanxi Institute of Technology
Dejun Wu	Shaanxi Institute of Technology
15:58-16:06	SunB2.2
435 An MFCC and Attention Me	chanism-Based CNN Model for
Fault Detection in Acoustic or Vi	bration Time-Series Data
Wenchi Pang	Shannxi Normal Univ.
Zhang Guo	Shannxi Normal Univ.
Jisheng Li	Shannxi Normal Univ.
16:06-16:14	SunB2.3
538 Research on Control Metho	ds and Path Planning for AUVs
Chunxiao Gao	Shanghai Maritime Univ.
Fuxiao Tan	Shanghai Maritime Univ.
16:14-16:22	SunB2.4
759 Adaptive Intelligent Excitat	ion Control for Power Systems
Based on Finite-Time Stabilization	on
Qingkai Xing	Qingdao Univ.
Honghong Wang	Qingdao Univ.
Gang Xu	Weifang Vocational College
Kai Wang	Qingdao Univ.
16:22-16:30	SunB2.5
943 Wind-Resistant Flight Contr	ol for Amphibious Flying Car
Kangyao Huang	Tsinghua Univ.
Baoshang Zhou	Tsinghua Univ.
Songsong Rong	Tsinghua Univ.
Xinyu Zhang	Tsinahua Univ.
Huaping Liu	Tsinghua Univ.
16:30-16:38	SunB2.6
	Canb2.0

Qing Guo	Inner Mongolia Univ.
Shaoqi Ren	Inner Mongolia Univ.
Xiaodong Zhang	Baotou Depot of China Railway
	Hohhot Bureau Group Co., Ltd.
Jinping Jia	Tianshui Normal Univ.
Fei Gao	Inner Mongolia Univ.
16:38-16:46	SunB2.7
1049 Ordered Genetic Algorith	m for Entrance Dependent Vehicle
Routing Problem in Farms	Tain above Unive
Haotian Xu Xiaahui Fan	Tsinghua Univ.
	China Academy of Launch Vehicle
Jialin Zhu	
Qing Zhuo	Tsinghua Univ
Tao Zhang	Tsinghua Univ.
16:46-16:54	SunB2.8
1053 Optimized Task Allocati	on for Unmanned Aerial Vehicle
Swarms in Smart Agriculture	
Yixuan Fan	Tsinghua Univ.
Haotian Xu	Tsinghua Univ.
(China Academy of Launch Vehicle
Lianren Li	Technology
Wenbo Zhao	Tsinghua Univ.
Tion Roi	Systems Engineering Research
Hall Dai	Institute
Qing Zhuo	Tsinghua Univ.
Tao Zhang	Tsinghua Univ.
16:54-17:02	SunB2.9
1110 Learning Observer-base	d Fault-Tolerant Tracking Control
For Hypersonic Vehicle	
Shihao Wang	Qufu Normal Univ.
Teng Cao	Qufu Normal Univ.
17:00 47:40	
17:02-17:10	SunB2.10
Unknown Environmental Distu	rbance
Maoyang Chen	Nantong Liniv
Dianhao Zhang	Nantong Univ
Yiming Xu	Nantong Univ.
17:10-17:18	SunB2.11
1398 A Frequency Contrasti	ive Learning Method With Few
Labeled Data for Fault Diagnos	sis
Qiujin Liang	Tsinghua Univ.
Yuhao Jin	Tsinghua Univ.
Tao Zhang	Tsinghua Univ.
17:18-17:26	SunB2.12
1478 Cascade Control Stra	tegy Base on MPC for UAVs
Collaborative Payload Transpo	ort
Jiahao Yang	Shanghai Univ.
Juntong Qi	Shanghai Univ.
Yan Peng	Shanghai Univ.
Yuan Ping	EFY Intelligent control (Hainan)
Ohana Wi	Technology Co. Ltd
Chong Wu	EFY Intelligent control (Hainan)

Full State Constraints-Based Distributed Cooperative Learning Control of Multi-Agent Systems

	Technology Co. Ltd
Mingming Wang	Tianjin Univ.
17:26-17:34	SunB2.13
1632 Multi-objective Traje	ectory Optimization of Robotic Arm
Based on Improved Dung I	Beetle Optimization algorithm
Tao Sui	Shandong Univ. of Science and
	Technology
Kexin Wan	Shandong Univ. of Science and
	Technology
Xiuzhi Liu	Shandong Univ. of Science and
	Technology
Yixiang Feng	Shandong Univ. of Science and
0 0	Technology
Zehua Chen	Shandong Univ. of Science and
	Technology
17:34-17:42	SunB2.14
1639 Scalable Coordinati	on of Pursuers with Nonholonomic
Constraint in Multi-Player F	Reach-Avoid Games
Ziqi He	Shanghai Jiao Tong Univ.
Bochen Li	Shanghai Jiao Tong Univ.
Chenggang Wang	Shanghai Jiao Tong Univ.
Lei Song	Shanghai Jiao Tong Univ.
Dan Huang	Shanghai Jiao Tong Univ.
17:42-17:50	SunB2.15
1722 Large Angle Attitud	le Control of Satellite using Model
Predictive Control	
Dandan Su	Bauman Moscow State Technical
	Univ.
K.A. Neusypin	Bauman Moscow State Technical
	Univ.
Li Fu	Beihang Univ.
Ge Dong	Tsinghua Univ.
SunB3	3rd Floor Meeting Room 307
Vision gnc	3 层会议室 307
Chairs: Zhaowei Ma	National Univ.of Defense Technology
Xianguo Yu	National Univ.of Defense Technology
15:50-15:58	SunB3.1
138 H^{∞} Control Laws for	Helicopter Sling Load Flight
Changqi Liu	Northwestern Polytechnical Univ.
Aijun Li	Northwestern Polytechnical Univ.
Zuo Li	Northwestern Polytechnical Univ.
15:58-16:06	SunB3.2
263 Active Inceptors Opera	ation Principles and Key Technologies
Chao Zhang	Xi' an Jiaotong Univ.
16:06-16:14	SunB3.3
310 UAV positioning metho	od based on heterogeneous image
matching under GPS denia	al
Yang Yang	Sichuan Univ. of Science &
Tang Tang	Engineering
Pinde Song	Sichuan Univ. of Science &
	Engineering
Guogin Wang	Sichuan Univ. of Science &
Cuoqui many	Engineering
Chunlai Zhong	Sichuan Univ. of Science &

Lijia Cao	&
Engineerir	ıg
16:14-16:22 SunB3	.4
384 YBTrack:一种基于深度学习的无人机视觉目标跟踪系统	
AVIC Xi' an Flight Automat	ic
Control Research Institu	te
AVIC Xi' an Flight Automat	ic
Control Research Institu	te
AVIC Xi' an Flight Automat	ic
Control Research Institu	te
16:22-16:30 SunB3	.5
506 Robustness and scalability of multi-agent systems: the rol	e
of memory information	
Jiamin Wang Xidian Uni	v.
Jian Liu Xidian Uni	v.
Yuanshi Zheng Xidian Uni	v.
16:30-16:38 SunB3.6	
567 基于随机涨落光场的超高精度角速度鲁棒探测	
Chengliang Zhao Soochow Uni	v.
Xingyuan Lu Soochow Uni	v.
16:38-16:46 SunB3	.7
672 Existence of Pareto Optimal Triples for Multi-objectiv	e
Optimal Control Problems with Free Terminal Time	
	v
Ye Hong Southwest Jiaotong Uni	<u> </u>
Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.8	3
Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.6 325 Synchronization Control of Uncertain Teleoperation System	3 IS
Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.8 325 Synchronization Control of Uncertain Teleoperation System Inder Time-varying Delay and Input Saturation	s Is
Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.8 825 Synchronization Control of Uncertain Teleoperation System Inder Time-varying Delay and Input Saturation Hongyang Li Xihua Uni))S V.
Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.6 825 Synchronization Control of Uncertain Teleoperation System under Time-varying Delay and Input Saturation Hongyang Li Xihua Uni Xia Liu Xihua Uni))s v. v.
Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.8 825 Synchronization Control of Uncertain Teleoperation System under Time-varying Delay and Input Saturation Hongyang Li Xihua Uni Xia Liu Xihua Uni 16:54-17:02 SunB3	v. v. v.
Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.8 825 Synchronization Control of Uncertain Teleoperation System under Time-varying Delay and Input Saturation Hongyang Li Xihua Uni Xia Liu Xihua Uni 16:54-17:02 SunB3 1180 Reflection and Exploration on the Digital Delivery of Shi	v. v. v. <u>9</u>
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Ye Hong Southwest Jiaotong United Southwest Grand Southwest Jiaotong United South	v. v. <u>9</u> ip 1y 3y 0 v. v. v.
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Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.8 825 Synchronization Control of Uncertain Teleoperation System under Time-varying Delay and Input Saturation Hongyang Li Xihua Uni Xia Liu Xihua Uni 16:54-17:02 SunB3.1 180 Reflection and Exploration on the Digital Delivery of Shi Equipment Pingbo Yu China Coast Guard Academ Wei Wei China Coast Guard Academ Hao Chen Technolog 17:02-17:10 SunB3.1 1243 基于神经网络的地形等高线辅助导航 Rui Li Northwestern Polytechnical Uni Xun Tang Northwestern Polytechnical Uni Yanwei Du Northwestern Polytechnical Uni Rui Zhang Northwestern Polytechnical Uni Bin Xu Northwestern Polytechnical Uni	v. v. v. v. v. v. v. v. v. v. v. v. v.
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Ye Hong Southwest Jiaotong United Southast Jiaotong United Southwest Jiaotong Uni	v. <u>v.</u> <u>9</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u> <u>19</u>
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Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.8 825 Synchronization Control of Uncertain Teleoperation System under Time-varying Delay and Input Saturation Hongyang Li Hongyang Li Xihua Uni Xia Liu Xihua Uni 16:54-17:02 SunB3.1 180 Reflection and Exploration on the Digital Delivery of Shi SunB3 Equipment Pingbo Yu China Coast Guard Academ Wei Wei China Coast Guard Academ Hao Chen Technolog 17:02-17:10 SunB3.1 1243 基于神经网络的地形等高线辅助导航 Rui Li Northwestern Polytechnical Uni Xun Tang Northwestern Polytechnical Uni Xun Tang Northwestern Polytechnical Uni SunB3.11 1306 Event-triggered based disturbance observer and PI depticontrol for UUVs Xiaoyu Sun Xiaoyu Sun Yangzhou Uni Weixin Wang Yangzhou Uni	v. v. <u>v.</u> <u>v.</u> <u>v.</u> <u>v.</u> v. v. v. v. v. v. v. v. v. v.
Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.8 825 Synchronization Control of Uncertain Teleoperation System Under Time-varying Delay and Input Saturation Hongyang Li Xihua Uni Xia Liu Xihua Uni 16:54-17:02 SunB3.1 180 Reflection and Exploration on the Digital Delivery of Shi SunB3.1 Equipment Pingbo Yu China Coast Guard Academ Wei Wei China Coast Guard Academ Hao Chen Technolog 17:02-17:10 SunB3.1 1243 基于神经网络的地形等高线辅助导航 Rui Li Northwestern Polytechnical Uni Xun Tang Yanwei Du Northwestern Polytechnical Uni Yanwei Du Northwestern Polytechnical Uni Sun T:18 SunB3.11 1306 Event-triggered based disturbance observer and PI depticontrol for UUVs Yangzhou Uni Xiaoyu Sun Yangzhou Uni Weixin Wang Yangzhou Uni	No. 3 3 5
Ye Hong Southwest Jiaotong Uni 16:46-16:54 SunB3.8 825 Synchronization Control of Uncertain Teleoperation System Under Time-varying Delay and Input Saturation Hongyang Li Xihua Uni Xia Liu Xihua Uni 16:54-17:02 SunB3.1 180 Reflection and Exploration on the Digital Delivery of Shi SunB3.1 Equipment Pingbo Yu China Coast Guard Academ Wei Wei China Coast Guard Academ Hao Chen Technolog 17:02-17:10 SunB3.1 1243 基于神经网络的地形等高线辅助导航 Rui Li Northwestern Polytechnical Uni Yanwei Du Yanwei Du Northwestern Polytechnical Uni Yanwei Du Northwestern Polytechnical Uni 17:10-17:18 SunB3.11 1306 Event-triggered based disturbance observer and PI depticontrol for UUVs Xiaoyu Sun Xiaoyu Sun Yangzhou Uni Weixin Wang Yangzhou Uni Yang Yi Yangzhou Uni Yang Yi Yangzhou Uni	Image 3 3 5

 Real-Time Identification and Compensation of Phase Error for Whole-Angle Hemispherical Resonator Gyroscope Based on

Forgetting Filter and Virtu	al Rotation
Kaichen Yan	Northwestern Polytechnical Univ.
Xiaoxu Wang	Northwestern Polytechnical Univ.
Xiquan Wang	Northwestern Polytechnical Univ.
Qianbo Lu	Northwestern Polytechnical Univ.
17:26-17:34	SunB3.13
1624 Cooperative Target	Localization of Aircraft Cluster Based
on Multi-view Image Infor	mation Fusion
Weinan Zhao	Northwestern Polytechnical Univ.
Dingwen Zhang	Northwestern Polytechnical Univ.
	Beijing Electro-Mechanical
Lei Li	Engineering Institute
Jiaqi Chen	Northwestern Polytechnical Univ.
	Beijing Electro-Mechanical
Jun Ren	Engineering Institute
	Beijing Electro-Mechanical
Hang Qi	Engineering Institute
Ruitao Lu	Rocket Force Univ. of Engineering,
Jinwen Hu	Northwestern Polytechnical Univ.
Junwei Han	Northwestern Polytechnical Univ.
17:34-17:42	SunB3.14
1633 OGRRT-Connect	An improved RRT algorithm based on
opposite quided sampling	,
Yilong Wu	Soochow Univ
Shuxin Xie	Suzhou Vocational Univ
Zhenhua Wang	Soochow Univ
Chao Liu	Soochow Univ
Guodona Chen	Soochow Univ
Lining Sun	Soochow Univ
17:42-17:50	SunB3 15
1638 A Collision A	voidance Algorithm Design and
Implementation for LIAV	Resed on Visual Localization
Minkun Zhao	Northwestern Polytechnical Liniy
Xiaoxiona Liu	Northwestern Polytechnical Univ
Xinlong Xu	Northwestern Polytechnical Univ
SumB4	2rd Elser Meeting Boom 200
Barcontion GNC	310 FIOOI Meeting Room 309 3 탄스산安 300
Chairs: Vuanshi Zheng	Vidian Univ
Le Wang	High-Tech Institute of Xi'an
15·50-15·58	SunR4.1
225 Research on Multi	Jomain Joint Reconnaissance of JIVA
Swarm	
Vingli Wong	Chipa Linix of Mining and Taphnology
	China Univ. of Mining and Technology
	China Univ. of Mining and Technology
Han Zhang	China Oniv. of Mining and Technology
	National Only. of Defense Technology
10:00-10:00	SunB4.2
4/3 Research on Mar	ine Pilling Process Deduction and
Intelligent Decision Syste	m Based on Virtual Reality Platform
Chengyong Wen	CCCC Fourth Harbor Engineering
	Institute Co., Ltd
Meihong Lin	CCCC Fourth Harbor Engineering
	Institute Co., Ltd
16:06-16:14	SunB4.3

700 Research on non-affine system control method based on incremental dynamic inverse

Yanqing Cheng	China Aerodynamics Research and
	Development Center
Vunviona Zhona	China Aerodynamics Research and
Yunxiang Zhang	Development Center
Vieneci Zhang	China Aerodynamics Research and
Xiancai Zhang	Development Center
Fangei Zhang	China Aerodynamics Research and
Fengqi Zneng	Development Center
Xi Yue	China Aerodynamics Research and
	Development Center
16:14-16:22	SunB4.4

754 Neural Network-based Robust Formation Control for 6-DOF Multi-spacecraft Subject to Unknown Disturbances

Dongchen Han	Univ. of Electronic Science and	
	Technology of China	
Mongii Shi	Univ. of Electronic Science and	
	Technology of China	
Weiviang Gao	Southwest Institute of Technical	
Weixiang Gao	Physics	
lianafena Yue	Univ. of Electronic Science and	
biangiong ruc	Technology of China	
	Univ. of Electronic Science and	
Boxian Lin	Technology of China	
Kaiyu Qin	Univ. of Electronic Science and	
	Technology of China	
16:22-16:30	SunB4.5	
816 多超高速飞行器通信保持	控制与立体合围制导技术研究	
	China Academy of Launch Vehicle	
Xi Li	Technology	
Feng Gao	China Academy of Launch Vehicle	
	Technology	
Dong Guo	China Academy of Launch Vehicle	
	Technology	
16:30-16:38	SunB4.6	
1263 A method of model predictive adaptive scaling formation for		
the multi-UAV system in clutte	ered environments	
Mingxing Qin	High-Tech Institute of Xi'an	
Le Wang	High-Tech Institute of Xi'an	
Jianxiang Xi	High-Tech Institute of Xi'an	
Miao Zhao	Naval Univ. of Engineering	
Zhong Wang	High-Tech Institute of Xi'an	
16:38-16:46	SunB4.7	
1314 Impact Time Proportional Navigation Guidance for		
Hypersonic Flight Vehicles Ba	sed on DFNN	
Zichun Guo		
	High-Tech Institute of Xi'an	
Le Wang	High-Tech Institute of Xi'an High-Tech Institute of Xi'an	
Le Wang Jianxiang Xi	High-Tech Institute of Xi'an High-Tech Institute of Xi'an High-Tech Institute of Xi'an	
Le Wang Jianxiang Xi Miao Zhao	High-Tech Institute of Xi'an High-Tech Institute of Xi'an High-Tech Institute of Xi'an Naval Univ. of Engineering	
Le Wang Jianxiang Xi Miao Zhao Mingxing Qin	High-Tech Institute of Xi'an High-Tech Institute of Xi'an High-Tech Institute of Xi'an Naval Univ. of Engineering High-Tech Institute of Xi'an	
Le Wang Jianxiang Xi Miao Zhao Mingxing Qin 16:46-16:54	High-Tech Institute of Xi'an High-Tech Institute of Xi'an High-Tech Institute of Xi'an Naval Univ. of Engineering High-Tech Institute of Xi'an SunB4.8	

 1428 基于线性卷积混叠过程的自监督式光纤传感信号分离

 Zhao Chen
 Xi'an Electronic Engineering

	Research Institute
Zechao Liu	Zhejiang Lab
16:54-17:02	SunB4.9
1442 Multi-agent path f	inding based on improved CBS algorithm
Yuhui Sun	Institute of Microelectronics of the
	Chinese Academy of Sciences
Shaoyun Xu	Institute of Microelectronics of the
	Chinese Academy of Sciences
Yang Wang	Institute of Microelectronics of the
	Chinese Academy of Sciences
Shu Zhang	Institute of Microelectronics of the
	Chinese Academy of Sciences
Yuexing Hao	Institute of Microelectronics of the
-	Chinese Academy of Sciences
17:02-17:10	SunB4.10
1494 PDF control for ro	tation-modulating RLG INS
Lu Zhang	AVIC Xi'AN Flight Automatic
Ū	Control Research Institute
Hongjie Lei	AVIC Airborne Systems LTD
Pu Chen	AVIC Xi'an Flight Automatic Control
	Research Institute
Weilong Li	AVIC Xi'an Flight Automatic Control
	Research Institute
17:10-17:18	SunB4.11
1471 A Deep Learnin	g Neural Network Control Approach for
Quadrotor UAV Landing	y on a Moving Platform
Jiahan Peng	Beijing Institute of Technology
Kewei Xia	Beijing Institute of Technology
17:18-17:26	SunB4.12
1586 Research on auto	onomous task allocation method for UAVs
under communication d	egradation conditions
Qi Zhao	
	Corporation Limited
Ruoyun Song	
17.06 17.04	Corporation Limited
17.20-17.34	Suilb4.13
1599 Research on Perr	ormance Evaluation of Remote Obstacles
Altitude and Complex T	orroin Airport
liang Yu	
17·3/-17·/2	SunB4 14
1615 Dynamics and Co	
Formation in the port-H	amiltonian Framework
ronnation in the port in	China Academy of Space
Jiaming Wang	Technology
	China Academy of Space
Qingrui Zhou	
	China Academy of Space
Wei Zheng	Technology
Jingdong Diao	Technology
17.42-17.50	SunR4 15
1694 接触式机械家科法	。 「因执驻性分析
Chao Peng	Sun Yat-sen Univ
2	Sun nu-Son Oniv.

Shuang Tan	Sun Yat-sen Univ.
Di Liu	Beihang Univ.
Xiaoping Ouyang	Zhejiang Univ.
SunB5	3rd Floor Meeting Room 310
Intelligent GNC	3 层会议室 310
Chairs: Huangchao Yu	National Univ.of Defense Technology
Su Cao	National Univ.of Defense Technology
15:50-15:58	SunB5.1
166 Decoupled Geometri	c Control of the Quadrotor UAV Based
on Incremental Nonlinear	Dynamic Inversion
Jinghe Hu	Tianjin Univ.
Bin Xian	Tianjin Univ.
15:58-16:06	SunB5.2
255 Longitudinal Control	and Optimization of Fixed-Wing UAV
based on Deep Reinforce	ement Learning
Haiyang He	Nanjing Univ. of Aeronautics and
	Astronautics
Zhengen Zhao	Nanjing Univ. of Aeronautics and
	Astronautics
Fei Kong	Nanjing Univ. of Aeronautics and
	Astronautics
16:06-16:14	SunB5.3
346 Vibration Suppression	on Control for 2D TORA System With
Parametric Uncertainties	
Xinran Yang	Hebei Univ. of Technology
He Chen	Hubei Key Laboratory of Digital
	Textile Equipment (Wuhan Textile
	Univ.)
16:14-16:22	SunB5.4
442 Fully-Actuated System	m Approach for Underactuated System
Control Based on High-O	rder State Estimation
Tong Yang	Nankai Univ.
Menghua Zhang	Univ. of Jinan
Wei Sun	Liaocheng Univ.
Qingxiang Wu	Nankai Univ.
Ning Sun	Nankai Univ.
16:22-16:30	SunB5.5
444 Dynamic Modeling	of Variable-Length Dual Cable Boom
Cranes With Postural Adj	ustments
Xiaoxue Feng	Nankai Univ.
Tong Yang	Nankai Univ.
	Taian Quality and Technical
Tao Zhang	Inspection and Testing Institute
	Inspection and Research Institute)
	Iaian Quality and Technical
Jing Wang	Inspection and Testing Institute
	(Ialan Special Equipment
	Inspection and Research Institute)
	Shandong Luneng Special

Equipment Inspection and Testing

Taian Quality and Technical

Inspection and Testing Institute

Co., Ltd

Ruiping Pang

Xiaowei Chen

	(Taian Special Equipment
	Inspection and Research Institute)
Qingxiang Wu	Nankai Univ.
Ning Sun	Nankai Univ.
16:30-16:38	SunB5.6
458 Incremental Geometric	Control For A Small Size Unmanned
Helicopter	
Aochen Ma	Tianjin Univ.
Bin Xian	Tianjin Univ.
16:38-16:46	SunB5.7
856 Control Barrier Funct	ion-based Discrete-Time Adaptive
Control for Uncertain System	าร
Hao Xu	Beijing Institute of Technology
Zhongjiao Shi	Beijing Institute of Technology
Liangyu Zhao	Beijing Institute of Technology
16:46-16:54	SunB5.8
970 Downsample-based	Improved Dense Point Cloud
Registration Framework	
Shuai Yang	Beijing Institute of Technology
Chunlei Song	Beijing Institute of Technology
Yongqiang Han	Beijing Institute of Technology
Jiabin Chen	Beijing Institute of Technology
Zhongguan Piao	China North Artificial Intelligence &
	Innovation Research Institute
Zhenhao Wang	China North Artificial Intelligence &
	Innovation Research Institute
16:54-17:02	SunB5.9
1073 Ultra-Wideband base	d Robot Swarm Coordinate Rapid
Initialization in GNSS-D	enied and Motion-Constrained
Environments	
lianguang Xiang	National Univ. of Defense
	Technology
Xiaofeng He	National Univ. of Defense
, activity i to	Technology

Xiaofeng He	
ő	Technology
Lilian Zhang	National Univ. of Defense
	Technology
	National Univ. of Defense
	Technology
Buiguong Ho	National Univ. of Defense
Ruiguang ne	Technology
Russhan Liu	National Univ. of Defense
	Technology
17:02-17:10	SunB5.10
	W Dahat OLAM Overta in with

 DiCar-SLAM: A Distributed Multi-Robot SLAM System with Enhanced Scan Context and Lateral Robustness

Vushan Dang	National Univ. of Defense
fushan Peng	Technology
Zongyong Chon	National Univ. of Defense
Zongyang Chen	Technology
Changhao Chan	National Univ. of Defense
Changhao Chen	Technology
Vienfei Den	National Univ. of Defense
	Technology
17:10-17:18	SunB5.11

1289 基于简化太阳方位角	的绝对航向角解算方法
Min Zhang	Beijing Institute of Technology
Xia Wang	Beijing Institute of Technology
Yuyang Li	Beijing Institute of Technology
17:18-17:26	SunB5.12
1328 Hybrid Control of	Thrusters and Reaction Wheels for
Angular Velocity Damping	in Satellite Attitude Control
Yanbo Yang	Wuhan Univ.
Di Huang	Wuhan Univ.
17:26-17:34	SunB5.13
1340 Stable Control for	the Planar P-R type Underactuated
Robot based Trajectory Pl	anning and Intelligent Algorithm
Zilin Shu	Wuhan Institute of Technology
Xiangyu Gong	Wuhan Institute of Technology
Ziang Wei	Wuhan Institute of Technology
Zixin Huang	Wuhan Institute of Technology
17:34-17:42	SunB5.14
1411 Research on deto	nation position estimation based on
genetic algorithm	
Yangyang Zhang	Rocket Force Univ. of Engineering,
rangyang zhang	Xi'an
You Wu	Jiangnan Univ.
Ye Chen	PLA 96901 Unit
Qiuhui Yang	PLA 96901 Unit
Chuanxiang Li	Rocket Force Univ. of Engineering
Jin Li	PLA 96901 Unit
17:42-17:50	SunB5.15
1435 基于模型预测控制的	为无人机-无人车协同编队控制
1435 基于模型预测控制的 Jiangzhen Ma	的无人机-无人车协同编队控制 Tianjin Univ.
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui	的无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ.
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6	か无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC	的无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen	h无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen	か无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 <u>3 层会议室 311</u> China Aerodynamics Research and Development Center
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou	か无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 <u>3 层会议室 311</u> China Aerodynamics Research and Development Center National Univ. of DefenseTechnology
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 其王尾刺的形体化的的	か无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的例 Hui Wang	かえ人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 流炮吊舱抖动稳定性分析研究
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的标 Hui Wang Li Zhang	h无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 抗炮吊舱抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd.
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的条 Hui Wang Li Zhang Mina Ma	加玉人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 抗炮吊舱抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd.
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的机 Hui Wang Li Zhang Mina Ma Wapming Wu	加え人机-无人车协同编队控制 「ianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 抗炮吊舱抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd.
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的机 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06	h无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 抗炮吊脸抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd.
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的场 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver	h无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 <u>3 层会议室 311</u> China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 抗炮吊舱抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的标 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors	加え人机-无人车协同编队控制 「ianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 <u>3 层会议室 311</u> China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 抗炮吊舱抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 ing control method based on velocity
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的标 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors Dapeng Yang	h无人机-无人车协同编队控制 「ianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 <u>3 层会议室 311</u> China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 近炮吊舱抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 fing control method based on velocity
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的船 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors Dapeng Yang Yibo Zhenn	加工人机-无人车协同编队控制 「ianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 抗炮吊舱抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 ing control method based on velocity FuDan Univ. Northwestern Polytechnical Univ
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的机 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors Dapeng Yang Yibo Zheng	加え人机-无人车协同编队控制 「ianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 抗炮吊艙抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 ing control method based on velocity FuDan Univ. Northwestern Polytechnical Univ.
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的短 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors Dapeng Yang Yibo Zheng Huanying Jin	加工人机-无人车协同编队控制 「ianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 前地吊船抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 ing control method based on velocity FuDan Univ. Northwestern Polytechnical Univ. Shenyang Aircraft Design and Research Institute
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的机 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors Dapeng Yang Yibo Zheng Huanying Jin	加え人机-无人车协同编队控制 「ianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 前炮吊舱抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 ing control method based on velocity FuDan Univ. Northwestern Polytechnical Univ. Shenyang Aircraft Design and Research Institute Shenyang Aircraft Design and
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的机 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors Dapeng Yang Yibo Zheng Huanying Jin Jinwei Zhao	加え人机-无人车协同编队控制 「ianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 抗炮吊舱抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 ing control method based on velocity FuDan Univ. Northwestern Polytechnical Univ. Shenyang Aircraft Design and Research Institute Shenyang Aircraft Design and Research Institute
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的标 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors Dapeng Yang Yibo Zheng Huanying Jin Jinwei Zhao	h无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 近地吊触抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 ting control method based on velocity FuDan Univ. Northwestern Polytechnical Univ. Shenyang Aircraft Design and Research Institute Shenyang Aircraft Design and Research Institute Shenyang Aircraft Design and
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的标 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors Dapeng Yang Yibo Zheng Huanying Jin Jinwei Zhao Haitong Zhou	h无人机-无人车协同编队控制 Tianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 近地吊触抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 ing control method based on velocity FuDan Univ. Northwestern Polytechnical Univ. Shenyang Aircraft Design and Research Institute Shenyang Aircraft Design and Research Institute Shenyang Aircraft Design and Research Institute
1435 基于模型预测控制的 Jiangzhen Ma Lei Cui SunB6 Aircraft GNC Chairs: Fei Cen Chao Zhou 15:50-15:58 446 基于尾部外形优化的场 Hui Wang Li Zhang Mina Ma Wanming Wu 15:58-16:06 599 An aircraft maneuver vectors Dapeng Yang Yibo Zheng Huanying Jin Jinwei Zhao Haitong Zhou Yongxi Lyu	加工人机-无人车协同编队控制 「ianjin Univ. Tianjin Univ. Tianjin Univ. 3rd Floor Meeting Room 311 3 层会议室 311 China Aerodynamics Research and Development Center National Univ. of DefenseTechnology SunB6.1 近地吊触抖动稳定性分析研究 AVIC Qing'an Group Co., Ltd. AVIC Qing'an Group Co., Ltd. SunB6.2 ing control method based on velocity FuDan Univ. Northwestern Polytechnical Univ. Shenyang Aircraft Design and Research Institute Shenyang Aircraft Design and Research Institute

1000-10-10-14 Sunbb.s 1047 Research and Simulation of Brushless DC Motor Control Based on Fuzzy Neural Network Jiaxuan Xie AVIC Qing'an Group Co., Ltd. Yining Liu AVIC Qing'an Group Co., Ltd. 16:14-16:22 SunB6.4 1054 Landing Footprint Generation with No-fly Zone Constraint Xinlu Guo Dalian Univ. of Technology Yi Fang Research Institute Yongzhen Liu Shenyang Aircraft Design & Yangzhou Collaborative Innovation Jili Zhang Yangzhou Collaborative Innovation Jili Zhang Yengzhou Collaborative Innovation Research Institute 16:22-16:30 SunB6.5 1095 Hypersonic vehicle morphing decision based on neural network Linfei Hou Dalian Univ. of Technology Hao Liu Shenyang Aircraft Design and Research Institute Research Institute Rui Wang Dalian Univ. of Technology 16:30 SunB6.6 1109 Modeling and Control Methods for Hypersonic Vehicle Considering Inlet Unstart Yingyu Tang Dalian Univ. of Technology Yingyu Tang Dalian Univ. of Technology Liaoni	16:06 16:14	SupP6 2
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Mingyuan Zhai Shenyang Aircraft Design & Mingyuan Zhai Research Institute, Shenyang Liaoning 110035, China Liaoning 110035, China Jiaxin Li Sun Yat-Sen Univ. Jun Liu Dalian Univ. of Technology 16:38-16:46 SunB6.7 1123 Dynamic inverse control method for STOVL aircraft in transition phase based on torque distribution Shaochen Wang Dalian Univ. of Technology Shilong Ruan Dalian Univ. of Technology Lei Zhang Shenyang Aircraft Design and Research Institute Weiguang Shao Dalian Univ. of Technology 16:46-16:54 SunB6.8 1137 Hypersonic flight vehicle rigid/flexible state estimation using INS and FADS Weiguang Shao Dalian Univ. of Technology Jinwei Zhao Shenyang Aircraft Design Institute Yanguo Hu Shenyang Aircraft Design Institute Dong Zhe Dalian Univ. of Technology Guoqiang Wu Dalian Univ. of Technology 16:54-17:02 SunB6.9	Man Zhang	
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Yanguo Hu Shenyang Aircraft Design Institute Dong Zhe Dalian Univ. of Technology Guoqiang Wu Dalian Univ. of Technology 16:54-17:02 SunB6.9	Jinwei Zhao	Shenyang Aircraft Design Institute
Dong Zhe Dalian Univ. of Technology Guoqiang Wu Dalian Univ. of Technology 16:54-17:02 SunB6.9	Yanguo Hu	Shenyang Aircraft Design Institute
Guoqiang Wu Dalian Univ. of Technology 16:54-17:02 SunB6.9	Dong Zhe	Dalian Univ. of Technology
16:54-17:02 SunB6.9	Guoqiang Wu	Dalian Univ. of Technology
	16:54-17:02	SunB6.9

Yanxin Liu	AVIC Qing'an Group Co., Ltd
Liangliang Bai	AVIC Qing'an Group Co., Ltd
Junfei Zhang	AVIC Qing'an Group Co., Ltd
Shihui Du	AVIC Qing'an Group Co., Ltd
17:02-17:10	SunB6.10
1476 Research on the Re	lationship Between Sealing Assembly
Structure and Internal Flow	v Field Characteristics of Aviation High
Pressure Directional Valve	•
Tao Zhang	AVIC Qing'an Group Co., Ltd
Yongtao Luo	AVIC Qing'an Group Co., Ltd
Yongpeng Wang	AVIC Qing'an Group Co., Ltd
Yunlong Gao	AVIC Qing'an Group Co., Ltd
Wei Xu	AVIC Qing'an Group Co., Ltd
Kun Li	AVIC Qing'an Group Co., Ltd
17:10-17:18	SunB6.11
1558 主动磁悬浮轴承功率	放大器的设计与仿真分析
Gang Xin	AVIC Qing'an Group Co., Ltd
Xiaoming Li	AVIC Qing'an Group Co., Ltd
17:18-17:26	SunB6.12
1570 Control Strategy St	udy for Aircraft Bay Door Based on
Variable Displacement Hyd	draulic Motor
Changhong Gao	AVIC Qing'an Group Co., Ltd
Yiqing Yang	AVIC Qing'an Group Co., Ltd
Yansong Liu	AVIC Qing'an Group Co., Ltd
17:26-17:34	SunB6.13
Yi Li Zhaowai Lanz	AVIC Qing'an Group Co., Ltd.
	AVIC Qing an Group Co., Ltd
17.34-17.42	suildo. 14
Dispense Wu	AVIC Oingian Croup Co. Ltd
	AVIC Qing an Group Co., Etd
Gaojie Ma	AVIC Qing an Group Co., Etd
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1578 Research on Positio	SuilB0.13
Permanent Magnet Synch	n Sensorless Control of Dual Minding
· GUIDINGUI WELLET · SVITT	n Sensorless Control of Dual Winding ronous Motor
Hong Dai	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co. Ltd
Hong Dai	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co., Ltd 3rd Floor Meeting Boom 243
Hong Dai SunB7 Classic GNC	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co., Ltd 3rd Floor Meeting Room 312 3 民会议会 244
Hong Dai SunB7 Classic GNC Chairs: Tao Chao	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co., Ltd 3rd Floor Meeting Room 312 3 层会议室 312 Harbin Institute of Technology
Hong Dai SunB7 Classic GNC Chairs: Tao Chao Zhi Wang	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co., Ltd 3rd Floor Meeting Room 312 3 层会议室 312 Harbin Institute of Technology Academy of Mathematics and
Hong Dai SunB7 Classic GNC Chairs: Tao Chao Zhi Wang	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co., Ltd 3rd Floor Meeting Room 312 3 层会议室 312 Harbin Institute of Technology Academy of Mathematics and Systems Science, CAS
Hong Dai SunB7 Classic GNC Chairs: Tao Chao Zhi Wang 15:50-15:58	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co., Ltd 3rd Floor Meeting Room 312 3 层会议室 312 Harbin Institute of Technology Academy of Mathematics and Systems Science, CAS
Hong Dai SunB7 Classic GNC Chairs: Tao Chao Zhi Wang 15:50-15:58 125 Adaptive dury layer of	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co., Ltd 3rd Floor Meeting Room 312 3 层会议室 312 Harbin Institute of Technology Academy of Mathematics and Systems Science, CAS SunB7.1
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Hong Dai SunB7 Classic GNC Chairs: Tao Chao Zhi Wang 15:50-15:58 125 Adaptive dual-layer su morphing aircraft Eaporthean Zhou	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co., Ltd 3rd Floor Meeting Room 312 3 层会议室 312 Harbin Institute of Technology Academy of Mathematics and Systems Science, CAS SunB7.1 Iper-twisting sliding mode control of
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Hong Dai SunB7 Classic GNC Chairs: Tao Chao Zhi Wang 15:50-15:58 125 Adaptive dual-layer su morphing aircraft Fangzheng Zhou Huijin Fan	n Sensorless Control of Dual Winding ronous Motor AVIC Qing'an Group Co., Ltd 3rd Floor Meeting Room 312 3 层会议室 312 Harbin Institute of Technology Academy of Mathematics and Systems Science, CAS SunB7.1 uper-twisting sliding mode control of Huazhong Univ. of Science and Technology Huazhong Univ. of Science and
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1244 电静液作动器低温启动性能研究

15:58-16:06	SunB7.2
1092 A trajectory optimizati	on method for powered aeroassisted
orbital transfer vehicle	
Mengdi Zhang	Harbin Institute of Technology
Zenan Zhong	Harbin Institute of Technology
Qiushi Wu	Beijing Institute of Astronautical
	Systems Engineering
Tao Chao	Harbin Institute of Technology
16:06-16:14	SunB7.3
1579 Fault-tolerance me	ethod for microsatellite on-board
computers	
based on on-board resource	e redundancv
Hao Zhang	Northwestern Polytechnical Univ.
Ju Zhou	Northwestern Polytechnical Univ.
Guanghui Liu	Northwestern Polytechnical Univ.
Jianguo Guo	Northwestern Polytechnical Univ.
Zian Hao	Northwestern Polytechnical Univ.
16.14-16.22	SunB7 4
1724 Midcourse Trajectory	Modification Approach Based on
Predictive-Control for Hype	rsonic Vehicle
Yu Cheng	Harbin Institute of Technology
Guoving Yi	Harbin Institute of Technology
Hao Wang	Harbin Institute of Technology
Viran Chen	Harbin Institute of Technology
Visong Zhang	Harbin Institute of Technology
16:22 16:30	Sup87.5
10.22-10.30	
Angle and Hard Assolution	anne Guidance Law with Terminal
Dongohon Lu	Northwestern Polytechnical Univ
Jongunen Lu	Northwestern Polytechnical Univ.
Jianguo Guo	Northwestern Polytechnical Univ.
	Northwestern Polytechnical Only.
16:30-16:38	SunB7.6
660 UWB-Inertial fusion loc	alization algorithm based on Error-
State Kalman filter in GNSS	S-denied environments
Xu Wen	Harbin Institute of Technology
Jiadong Yang	Harbin Institute of Technology
Junxi Tian	Harbin Institute of Technology
Tao Chao	Harbin Institute of Technology
16:38-16:46	SunB7.7
972 Research on Closed-lo	op Subspace Identification Method
of a Quadrotor	
Yu Qiao	Harbin Institute of Technology
Shenming Quan	Electro-Mechanical Engineering
g	Institute
Songyan Wang	Harbin Institute of Technology
Ming Yang	Harbin Institute of Technology
Tao Chao	Harbin Institute of Technology
16:46-16:54	SunB7.8
319 Application of An Efficie	ent Two-Stage Approach in Path
Planning of Lunar Rover	
Zhaojun Nie	Harbin Institute of Technology
Chao Ye	Harbin Institute of Technology

Observations	
Minauria Dina	Academy of Mathematics and
	Systems Science, CAS
Wenxiao Zhao	Academy of Mathematics and
	Systems Science, CAS
17:02-17:10	SunB7.10
1076 Complete Coverage Path	Planning Method for Lunar
Surface Drilling Exploration Are	a Detection
Zhini Van	Univ. of Chinese Academy of
	Sciences
Dong Zhong	Academy of Mathematics and
Peng Zhang	Systems Science, CAS
Zhi Mana	Academy of Mathematics and
∠ni wang	Systems Science, CAS
Chilling Llo	Academy of Mathematics and
Shijing He	Systems Science, CAS
	Academy of Mathematics and
Minying He	Systems Science, CAS
17:10-17:18	SunB7.11

1238 Research on the interaction mechanism between the excavation wheel and lunar soil based on the discrete element method

	Univ. of Chinese Academy of
	Sciences
Dana Zhana	Academy of Mathematics and
Peng Zhang	Systems Science, CAS
71: \ \ /	Academy of Mathematics and
Zhi wang	Systems Science, CAS
Minutine at the	Univ. of Chinese Academy of
Minying He	Sciences
	Univ. of Chinese Academy of
Yuchen Zhang	Sciences
	Academy of Mathematics and
Hanzne Yang	Systems Science, CAS
17:18-17:26	SunB7.12

1605 Design and Analysis of a four-wheel deployable Planetary Rover Based on Wheel-Soil Dynamics

Shaoheng Hu	Beijing Jiaotong Univ.
Mengyang Wang	Beijing Jiaotong Univ.
Yaning Zhang	Beijing Jiaotong Univ.
Xianhong Zhang	Beijing Jiaotong Univ.
Ruiming Li	Beijing Jiaotong Univ.
17:26-17:34	SunB7.13

1678 Framework Design of a Real-time Decision Support System for Drilling Site Selection Based on Three-Dimensional Dynamic Mapping

Minying He	Univ. of Chinese Academy of
	Sciences
Zhi Wang	Academy of Mathematics and
	Systems Science, CAS
Shijing He	Univ. of Chinese Academy of
	Sciences
Peng Zhang	Academy of Mathematics and
	Systems Science, CAS

490 Adaptive Regulation of Hammerstein Systems with Nonlinear

Zinyi ran	Academy of Mathematics and
	Systems Science, CAS
Ming Yang	Beijing Institute of Control
	Engineering
17:34-17:42	SunB7.14
781 Neural Network Fee	dforward aided Composite
AntiDisturbance Control	for Hypersonic Morphing Vehicle
Xingyu Wu	Beihang Univ.
Honglun Wang	Beihang Univ.
Yuebin Lun	Beihang Univ.
Bin Ren	Beihang Univ.
17:42-17:50	SunB7.15
1490 高阶扰动引力场中	机动突防导弹落点精确预报方法
Lei Wang	National Univ. of Defense
Ū	Technology
Xiang Zhou	National Univ. of Defense
	Technology
Weihu Zhao	National Univ of Defense
Yianzhe Cheng	National Univ of Defense
Aldrizhe Cherig	
Wai Zhang	National Univ. of Defense
wei zheng	
0	2nd Els es Mastin a Daam 242
SunBa	3rd Floor Meeting Room 313
Chairs: wei Dong	Shanghai ling Tang Univ
15:50-15:58	SunB8.1
113 Attitude consensu	s of multiple uncertain spacecraπ
systems with sensor faul	ts and input delay
	Aerosace Science and Industry
Yunhan Li	
	Space Engineering Development
	Space Engineering Development Co., Ltd
	Space Engineering Development Co., Ltd Aerosace Science and Industry
Xing Xin	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development
Xing Xin	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd
Xing Xin Chunyan Wang	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology
Xing Xin Chunyan Wang	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry
Xing Xin Chunyan Wang Keyu Zheng	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development
Xing Xin Chunyan Wang Keyu Zheng	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 c of Unmanned Aerial Vehicle Systems
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 c of Unmanned Aerial Vehicle Systems
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 c of Unmanned Aerial Vehicle Systems Hebei Univ. of Science and
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 F of Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou Tao Wang	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development <u>Co., Ltd</u> SunB8.2 c of Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology Hebei Univ. of Science and
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou Tao Wang	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 For Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou Tao Wang Mengran Niu	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 Fof Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology Hebei Univ. of Science and
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou Tao Wang Mengran Niu	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 Co., Ltd SunB8.2 Cof Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou Tao Wang Mengran Niu Lele Xi	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 Co., Ltd SunB8.2 Cof Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology Hebei Univ. of Science and
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou Tao Wang Mengran Niu Lele Xi	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 For Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou Tao Wang Mengran Niu Lele Xi Canyang Zhao	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development Co., Ltd SunB8.2 For Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou Tao Wang Mengran Niu Lele Xi Canyang Zhao	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development <u>Co., Ltd</u> SunB8.2 c of Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology
Xing Xin Chunyan Wang Keyu Zheng 15:58-16:06 808 Backstepping ADRC with Output Constraints Ning Zhou Tao Wang Mengran Niu Lele Xi Canyang Zhao 16:06-16:14	Space Engineering Development Co., Ltd Aerosace Science and Industry Space Engineering Development Co., Ltd Beijing Institute of Technology Aerosace Science and Industry Space Engineering Development <u>Co., Ltd</u> SunB8.2 c of Unmanned Aerial Vehicle Systems Hebei Univ. of Science and Technology Hebei Univ. of Science and Technology

1619 Impact Speed Constrain	ned Guidance Law under Drag
Uncertainty for Gliding Vehicle	Ũ
Xinwan Kong	Beijing Institute of Technology
Cheng Zhang	Beijing Institute of Technology
16:14-16:22	SunB8.4
316 Hyperbola-Like Impact And	ale Guidance Law With Reduced
Look Angle Variation	,
Chunijang Wu	Beihang Univ
Qinalei Hu	Beihang Univ.
Tuo Han	Beihang Univ.
16:22-16:30	SunB8.5
589 Distributed LIAV Swarm	Collaborative SLAM Based on
Visual-inertial-ranging Measure	ement
Yicheng Shou	Beijing Institute of Technology
Zhuovue Song	Beijing Institute of Technology
Наоуц Оі	Beijing Institute of Technology
Zhen Li	Beijing Institute of Technology
Wenije Chen	Beijing Institute of Technology
	Sup88.6
700 Collaborative Trajectory P	Janning for Hypersonic Vehicles
Considering Angle Constraints	ianning for Hypersonic vehicles
Oingyang Li	Boijing Institute of Technology
	Beijing Institute of Technology
Junnui Liu	Beijing Institute of Technology
	Beijing Institute of Technology
16:38-16:46	
951 Understanding Decisions	of Object Detectors via Saliency
Maps	B
Jin Xiao	Beihang Univ.
Wenrui Liu	Beihang Univ.
Weipeng Wang	Beihang Univ.
Xiaoguang Hu	Beihang Univ.
16:46-16:54	SunB8.8
345 Fault diagnosis of aero-e	ngine sensors based on kernel
principal element analysis	
Huihui Li	Shanghai Jiao Tong Univ.
Linfeng Gou N	orthwestern Polytechnical Univ.
Qiang Shen	Shanghai Jiao Tong Univ.
Meng Zhang AE	CC Aero-engine control system
	institute
16:54-17:02	SunB8.9
1247 Distributed Model Pre	dictive Control for Spacecraft
Formation with Safety Require	ments
Zeyang Zhao	Shanghai Jiao Tong Univ.
Qiang Shen	Shanghai Jiao Tong Univ.
Hongji Zhuang	Shanghai Jiao Tong Univ.
17:02-17:10	SunB8.10
1422 数据驱动的模型参考自适	应一致性控制
Ziyuan Ma N	lanjing Univ. of Aeronautics and
	Astronautics
Xiaoyun Sun	Shanghai Jiao Tong Univ.
Meng Li	Jiuquan City 14 Branch
Huajun Gong N	lanjing Univ. of Aeronautics and
	Astronautics

Xinhua Wang	Nanjing Univ. of Aeronautics and
	Astronautics
17:10-17:18	SunB8.11
428 Improved P-RRT*	and Modified Dynamic Window
Approach for UAV Dynam	ic Trajectory Planning
Xiangyu Zhu	Shanghai Maritime Univ.
Bo Li	Shanghai Maritime Univ.
Hongyue Ma	Shanghai Maritime Univ.
17:18-17:26	SunB8.12
681 Implementation Meth	od of Ground Model for Commercial
Aircraft Autoland Control	
Zeyu Kang	Commercial Aircraft Corporation of
	China
Zibo Wei	Commercial Aircraft Corporation of
	China
Xiaoyi Gong	Commercial Aircraft Corporation of
	China
Chao Zhou	Commercial Aircraft Corporation of
	China
Hui Shao	Commercial Aircraft Corporation of
	China
17:26-17:34	SunB8.13
1015 Design and Simulati	ion of Automatic Flare Control Law for
Civil Aircrafts	
Ziqin Xu	Commercial Aircraft Corporation of
	China
Haonan Xu	Commercial Aircraft Corporation of
	China
Chang Liu	Commercial Aircraft Corporation of
	China
Zeyu Kang	Commercial Aircraft Corporation of
	China
Zibo Wei	Commercial Aircraft Corporation of
	China
17:34-17:42	SunB8.14
1365 Multi-view Correlat	ion Learning Cross-modal Retrieval
Based On Multi-layer Atte	ntion
Zhichao Han	Universiti Putra Malaysia
Azreen Bin Azman	Universiti Putra Malaysia
⊢atimah Binti Khalid	Universiti Putra Malaysia
Mas Rina Binti	Universiti Putra Malaysia
Mustaffa	
17:42-17:50	SunB8.15
1705 Unsupervised Meth	od For Cross-modal Retrieval Based
On Domain Adaptive Lear	rning
∠nichao Han	Guangxi Vocational Normal Univ.
Weiwei Chen	Guangxi Vocational Normal Univ.
Chengjia Huang	Xiangsihu College Guangxi Univ.
	For Nationalities
Xinpan Yuan	Hunan Univ. of Technology
Haoyu Ruan	Hunan Univ.
∠hihao Jiang	Shenzhen Lazada Software
	Technology Company Limited
SunB9	3rd Floor Meeting Room VIP 01

Autonomous GNC	3 层会议室 VIP 01
Chairs: Delin Luo	Xiamen University
Yang Xu	Northwestern Polytechnical University
15:50-15:58	SunB9.1
1443 Adaptive Finite-Tim	e Formation Constraint Control for
Heterogeneous Multi-age	ent Systems
Qu Chen	Liaoning University of Technology
Shu Li	Liaoning University of Technology
Lei Liu	Liaoning University of Technology
Yanjun Liu	Liaoning University of Technology
15:58-16:06	SunB9.2
270 UAVs Cluster Ta	rget Round up Strategy Based on
Neighborhood Cognitive	Consistency
Zhaotian Wei	Air Force Engineering University
Ruixuan Wei	Air Force Engineering University
16:06-16:14	SunB9.3
292 Formation Tracking	Control of Second-Order Multi-Agent
Systems: A Perspective i	from Distributed Optimization
Jiangyuan Tian	Air Force Engineering University
Ruixuan Wei	Air Force Engineering University
16:14-16:22	SunB9.4
794 <i>尢圤流与有粘流流A</i>	<i>达动力的关系研究</i>
Xianwu Lin	Xiamen University
	Xiamen University
16:22-16:30	SunB9.5
833 奉丁优京切具的侧将	「硬異机 C 行 面 庾 叶 尔 杀 统
Zhenyi Yao	Nanjing University of Aeronautics
	And Astronautics
Biao Wang	and Astronautics
Chaoying Tang	and Astronautics
	Aviation Key Laboratory of Science
	and Technology on Aero
Feng Yang	Electromechanical System
	Integration
16:30-16:38	SunB9.6
962 Dvnamic event-trigo	ered robust cooperative path following
control of fixed-wing UAV	/s
Ziyi Yang	Xiamen University
Zhengyu Guo	National Key Laboratory of Air-
	based Information Perception and
	Fusion
Yang Xu	Northwestern Polytechnical
	University
Delin Luo	Xiamen University
16:38-16:46	SunB9.7
967 Deep Reinforcemen	t Learning-Based Local Path Planning
with Memory-Guided	
Xu Wang	Beijing Information Science and
Au mung	Technology University
Xiaobin Xu	Beijing Information Science and
	Technology University
Shiyao Lin	China Research and Development

	Academy of Machinery Equipment
Junfang Fan Zhihao Gao	Beijing Information Science and
	Technology University
	Beijing Information Science and
	Technology University
Chengyu Gu	Beijing Information Science and
	Technology University
16:46-16:54	SunB9.8
355 Study on Vacuum C	old Welding Prevention of In-orbit
Refueling Pipeline Disconne	ection
\A/ · / \A/	Beijing Institute of Spacecraft
vveichen vvang	System Engineering
	Beijing Institute of Spacecraft
Weizhen Pan	System Engineering
	Beijing Institute of Spacecraft
Shengran Dong	System Engineering
	Beijing Institute of Spacecraft
Jianyu Lei	System Engineering
	Beijing Institute of Spacecraft
Sheng Yang	System Engineering
16:54-17:02	
1147 Research on Solar S	Sail Design and Control Based on
Origami Principles	
g	National University of Defense
Junhao Wu	Technology
	Defense Innovation Institute.
Xiang Zhang	Academy of Military Sciences
	Defense Innovation Institute.
Kangjia Fu	Academy of Military Sciences
	Defense Innovation Institute.
Xuesong Wu	Academy of Military Sciences
	Northwestern Polytechnical
Chong Sun	University
	National University of Defense
Zongyu Wu	Technology
17:02-17:10	SunB9 10
1034 Cooperative tactical	intent recognition based on self-
supervised learning under n	nultimodal information
	Chinese Aeronautical
Kai Wu	Establishment
	Chinese Aeronautical
Bo Liu	Establishment
	Chinese Aeronautical
Zhaojiang Chen	Establishment
	Chinese Aeronautical
Sujie Li	Eetablichmont
Weining Li	Entehlishment
17.10 17.18	Establishmeht
1618 A Mideoureo Different	ial Came Penetration Quidence Law
for Dellietie Missilar Os and	iai Garrie Perietration Guidance Law
IUI Bailistic Missiles Conside	ening Handover Point

	Technology
Ri Zhao	China Academy of Launch Vehicle
	Technology
Zhenyu Zhang	Nanjing University of Science and
	Technology
Wei Chen	Nanjing University of Science and
	Technology
17:18-17:26	SunB9.12

1682 Stealthy Deception Attack for One-on-One Unmanned Aerial Vehicle Air Combat Xi'an University of Technology Wenya Wan Yijie Liu Xi'an University of Technology

Yingmin Yi	Xi'an University of Technology
17:26-17:34	SunB9.13

767 A novel attack missile guidance method considering the terminal angle constraint of the attack missile-target-defense missile game

Jiaxing Pan	Northwestern Polytechnical
	University
Jiajia Ma	Northwest Institute of Mechanical
	and Electrical Engineering,
Junhua Huang	Jiangxi Guoke Defence Group Co.
	Ltd.
Chong Sun	Northwestern Polytechnical
	University

17:34-17:42 SunB9.14 1591 Research on Active Disturbance Rejection Control of Digital Cabin Pressure Regulating System

Xiaoma Liu	China Astronaut Research and
	Training Center
Loi Yang	China Astronaut Research and
Lei rang	Training Center
lingsong Vong	China Astronaut Research and
Jingsong rang	Training Center
Dionfoi Don	China Astronaut Research and
Diamerran	Training Center
Zhan Zhang	China Astronaut Research and
Znen Znang	Training Center
Zhuo Dong	China Astronaut Research and
Zhuo Peng	Training Center
17:42-17:50	SunB9.15
010 Research on analytical redundancy reconstruction of flight	

control sensor signals for carrier-based aircrafts Jiahao Ma Beihang University Yunpeng Ma **Beihang University** AVIC Shenyang Aircraft Design and Dapeng Zhou Research Institute Chinese People's Liberation Army Min Xu Aviation School 17:50-17:58 SunB9.16 1701 A Survey on Disaster Prediction Methods Rui Xu National Univ. of Defense Technology National Univ. of Defense Technology Bing Xie

National Univ. of Defense Technology

Nanjing University of Science and

Xuanting Liu Technology Ruisheng Sun Nanjing University of Science and

159

Xueqiang Gu

Shengjian Bai	National Univ. of Defense Technology
SunB10	3rd Floor Meeting Room VIP 02
Novel GNC	3 层会议室 VIP 02
Chairs: Xiaolong Chen	AVIC Xi'an Flight Automatic
	Control Research Institute
Ziyang Zhen	Nanjing University of Aeronautics
	and Astronautics
15:50-15:58	SunB10.1
942 Research on Activ	ve Disturbance Rejection Control and
Optimization Method for	High-speed Helicopter
Tiongi Dong	Nanjing University of Aeronautics
nanqı Feng	and Astronautics
Shouzhao Shong	Nanjing University of Aeronautics
Shouzhao Sheriy	and Astronautics
15:58-16:06	SunB10.2
1032 Multi-Agent Path F	Planning for Simultaneous Arrival Based
on Conflict-Based Searc	h
Haoxian Jiang	Beihang University
Guanzhong Liu	Unit 95369 of PLA
Rui Zhou	Beihang University
16:06-16:14	SunB10.3
1149 Aerodynamic inte	rference compensation of tilt-rotor via
model based active dist	urbance rejection control
Zafan y Ohan	AVIC Xi'an Flight Automatic
Zereng Chen	Control Research Institute
Ning Zhang	AVIC Xi'an Flight Automatic
Ning Zhang	Control Research Institute
Yuolong Ma	AVIC Xi'an Flight Automatic
fuelong Ma	Control Research Institute
16:14-16:22	SunB10.4
1426 Optimization Met	hod for Tilting Transition Trajectory of
Tiltrotor	
	AVIC Xi'an Flight Automatic
Luiu Xue	Control Research Institute
ling Zhang	Northwestern Polytechnical
Jing Zhàng	University
Ning Zhang	AVIC Xi'an Flight Automatic
	Control Research Institute
Oiang Chen	AVIC Xi'an Flight Automatic
	Control Research Institute
16:22-16:30	SunB10.5
509 A Survey on Relativ	e Navigation Used in UAV Teaming
Xiaolong Chen	AVIC Xi'an Flight Automatic
stabiong offor	Control Research Institute
lio Li	AVIC Xi'an Flight Automatic
	Control Research Institute
Shiqi Che	Northwestern Polytechnical
	University
Qing Li	Tsinghua University
16:30-16:38	SunB10.6
830 Target State Estin	nation of Integrated Flight/Fire Control
System for Armed Helico	opter
	Maniferry Halterry Maniferry Annual Annua

ystem for Armed Helicopter	-
Yehua Liu	Nanjing University of Aeronautics
	and Astronautics

Donatoj Zhoj	Nanjing University of Aeronautics	
Feligiei Zilai	and Astronautics	
Peng Xie	Nanjing University of Aeronautics	
	and Astronautics	
Yuxin Tian	Nanjing University of Aeronautics	
	and Astronautics	
Yuanlong Lei	Nanjing University of Aeronautics	
1 ddinorig 201	and Astronautics	
Shouzhao Sheng	Nanjing University of Aeronautics	
enoulling	and Astronautics	
Huaiun Gong	Nanjing University of Aeronautics	
g	and Astronautics	
16:38-16:46	SunB10.7	
1342 Flight control law of	direct lift control based on direct	
decoupling of crosslinking co	pefficient	
Liting Song	Naval Aviation University	
Yang Zhang	Naval Academy	
Xiaolei Qu	AVIC Shenyang Aircraft Design	
	and Research Institute	
Jie Wang	Naval Aviation University	
Zhiyuan Yin	Naval Aviation University	
Yi Zhou	Naval Academy	
16:46-16:54	SunB10.8	
1399 Model-Free Adaptive	Angular Rate Control for Carrier-	
Based Aircraft		
Yuchun Zou	Nanjing University of Aeronautics	
	and Astronautics	
Chenggong Tao	Nanjing University of Aeronautics	
	and Astronautics	
Jian Ding	Nanjing University of Aeronautics	
	and Astronautics	
Zhibin Yin	Nanjing University of Aeronautics	
	and Astronautics	
Ziyang Zhen	Nanjing University of Aeronautics	
40.54.47.00	and Astronautics	
16:54-17:02	SunB10.9	
349 Fault Detection and	Estimation for Drag-Free Satellite	
Actuator Based on Adaptive	Vanahang Institute of Tashnalagu	
	Yancheng Institute of Technology	
	Vendore Tage base University	
	Vancheng Teachers University	
Zhaafaan Ohan	Yancheng Institute of Technology	
Zhaoreng Chen	Yancheng Institute of Technology	
Ziyao Cheng	Chandran Line from Intelligent	
Zongming Li	Shandong Hongreng Intelligent	
	Equipment Co., Ltd.	
17:02-17:10	SunB10.10	
1/06 Formation flying and transfer orbit analysis for LISA		
Zhuo Li	Shanghai institute of Satellite	
	Engineering	
Huixiang Ling		
	Engineering Roiiing Institute of Technology	
	Shanghai Institute of Satallite	
VIGO 71190	Shanghai institute of Satellite	

	Engineering
Qingzhong Gan	Shanghai Institute of Spaceflight
	Control Technology
17:10-17:18	SunB10.11
286 Formation Modes D	esign and Application for Fixed-Wing
UAV	
1 in n 7	AVIC Xi'an Flight Automatic Control
Ling Zuo	Research Institute
	AVIC Xi'an Flight Automatic Control
	Research Institute
Wei Oin	AVIC Xi'an Flight Automatic Control
Wei Qili	Research Institute
Xiandun Zhang	AVIC Xi'an Flight Automatic Control
	Research Institute
Sen Yang	AVIC Xi'an Flight Automatic Control
con rang	Research Institute
Zhivu Li	AVIC Xi'an Flight Automatic Control
2, 0 2.	Research Institute
17:18-17:26	SunB10.12
367 From Collaborative Fl	ight to Task Collaboration: Researches
and Tests on Multiple Sma	all Fixed-wing UAVs
Weiping Yang	AVIC Xi'an Flight Automatic Control
	Research Institute
Qiang Tang	AVIC Xi'an Flight Automatic Control
g ·	Research Institute
17:26-17:34	SunB10.13
1112 Federated Interactive	e Multiple Model Filtering for Multi-UAV
Cooperative Target Tracki	ng
Haozhe He	Xi'an Modern Control Technology
	Research Institute
Jiawen Wang	Xi'an Modern Control Technology
	Research Institute
Shaoqi Wang	Xi'an Modern Control Technology
	Research Institute
Cong Nie	Al an Modern Control Technology
	AV/IC Xilon Flight Automatic Control
Shichao Ma	
47.04 47.40	
17:34-17:42	SunB10.14
1124 A Hierarchical and N	Nodular Software Architecture for Task
Collaboration of UAV Swa	MS
Yukun Yang	
	AV/IC Xilon Elight Automatic Control
Yazhou Yue	
	AV/IC Xilon Elight Automatic Control
Qiang Tang	
Xianglun Zhang	Research Institute
	AV/IC Xi'an Flight Automatic Control
Hao Li	Research Instituto
	AVIC Xi'an Flight Automatic Control
Shichao Ma	Research Institute
Zhiyu Li	AVIC Xi'an Flight Automatic Control
	J

	Research Institute
liavun Wen	AVIC Xi'an Flight Automatic Control
	Research Institute
17:42-17:50	SunB10.15
1219 UAVs formation of	obstacle avoidance method based on
improved artificial potenti	ials and virtual leaders
Jiavun Wen	AVIC Xi'an Flight Automatic Control
	Research Institute
Qiang Tang	AVIC Xi'an Flight Automatic Control
3 3 3	Research Institute
Xianglun Zhang	AVIC Xi'an Flight Automatic Control
0 0	Research Institute
Hao Li	AVIC Xi'an Flight Automatic Control
	Research Institute
Yukun Yang	AVIC Xi'an Flight Automatic Control
-	Research Institute
Shichao Ma	AVIC Xi'an Flight Automatic Control
	Research Institute
Zhiyu Li	AVIC Xi'an Flight Automatic Control
,	Research Institute
SunB11	3rd Floor Aisle
Poster Session 2	3 层廊厅
Chairs: Xiaoshan Gao	Beihang University
Yuwei Zhang	Beihang University
15:50-17:50	SunB11.1
1348 A Hierarchical Fi	ramework for Autonomous Air Combat
Decision System	
Yunpeng Cai	Shenyang Aircraft Design and
Lizneng Cao	Shenyang Aircraft Design and
lless 1	Research Institute
Hang Li	Beinang Univ.
	Beinang Univ.
10.50-17.50	
1351 面向全中加油的应	网纹式锥套位直解异力法研究
Yu Wang	AVIC Shenyang Aircraft Design
	and Research Institute
Peng Qian	AVIC Shenyang Aircraft Design
	and Research Institute
Yunhe Xu	AVIC Shenyang Aircraft Design
	and Research Institute
Zheng Sun	AVIC Shenyang Aircraft Design
	and Research Institute
15:50-17:50	SunB11.3
1352 Low-Thrust Co	Mision Avoidance Maneuver Design
Considering Square	Manalanobis Distance Constraint
mengule Huang	
Shuang Li	
Shuany Li	
15.50 17.50	
1252 An Algorithm of C	Sund 11.4
Improved Papid ovelar	ing Pandom Tree for LIAVo
Hao Wang	Harbin Institute of Technology
nao wang	naibin institute of rechnology

Guoxing Yi	Harbin Institute of Technology	Hongji Zl
Yiran Chen	Harbin Institute of Technology	Qiang Sh
Zhennan Wei	Harbin Institute of Technology	15:50-17
Yu Cheng	Harbin Institute of Technology	1368 高
Yisong Zhang	Harbin Institute of Technology	Jindong `
Ziyang Qi	Harbin Institute of Technology	
15:50-17:50	SunB11.5	Junfeng
1359 Velocity Free Worksp	ace Trajectory Tracking Control of	
Free-floating Space Manipu	lator with Small Overshoot	Guohua
Hang Zhou	Shanghai Jiao Tong Univ.	
Qiang Shen	Shanghai Jiao Tong Univ.	15:50-17
Shufan Wu	Shanghai Jiao Tong Univ.	1371 Eve
Vladimir Yu. Razoumny	Peoples' Friendship Univ. of	Guarante
	Russia	Tao Gua
Yury N. Razoumny	Peoples' Friendship Univ. of	Bin Li
	Russia	Mingmin
15:50-17:50	SunB11.6	15:50-17
1360 Flight-YOLO: A Small	Objection Detection Algorithm	1372 基
from Unmanned Aerial Vehi	cle Perspective	Yanchao
Yixuan Shi	Shanghai Univ.	
Juntong Qi	Shanghai Univ.	Lei Zhan
Yan Peng	Shanghai Univ.	
Yuan Ping	EFY Intelligent Control (Hainan)	Yijun Yar
	Technology	
Chong Wu	EFY Intelligent Control (Hainan)	Qian Che
	Technology	
Mingming Wan	Tianjin Univ.	15:50-17
15:50-17:50	SunB11.7	1375 A li
1362 基于逆向强化模仿学	习的自动驾驶决策方法研究	based or
Guochen Niu	Civil Aviation Univ. of China	Bin Tang
Zhiheng Han	Civil Aviation Univ. of China	Xiaogan
Hui Xia	Civil Aviation Univ. of China	Ruitao Li
15:50-17:50	SunB11.8	Jiwei Far
1364 Anti-disturbance atti	ude control for hypersonic flight	Shuang
vehicles with electromechar	nical actuator dynamics	Zhenyu Z
Zhihui Wang	Beihang Univ.	Zhengjie
Yu Wang	Beihang Univ.	Zhenhao
Hao Teng	Beihang Univ.	15:50-17
Chenliang Wan	Beihang Univ.	1376 He
Jianzhong Qiao	Beihang Univ.	change
15:50-17:50	SunB11.9	Tao Zuo
1366 Online uncertainty and	lysis of aircraft disc brake pad wear	Leilei Li
considering thermo- mecl	nanical coupling	Kai Liu
Bo Sun	Beihang Univ.	
Leyang Zhou	Beihang Univ.	
Zeyu Wu	Beihang Univ.	Xia Wang
Junlin Pan	Beihang Univ.	Jiamei H
Jiankun Xu	Beihang Univ.	Wenzher
Iongshu Lin	Beihang Univ.	15:50-17
∠echen Yi	Beihang Univ.	1377 无
15:50-17:50	SunB11.10	Hongzho
1367 Robust Lyapunov-E	sased Attitude Tracking Control	
Allocation Under Actuator F	aults	Wenjuan
Junhao Hou	Shanghai Jiao Tong Univ.	

Hongji Zhuang	Shanghai Jiao Tong Uni
Qiang Shen	Shanghai Jiao Tong Uni
15:50-17:50	SunB11.1
1368 高动态下的多重模构	<i>糊弱小目标复原方法</i>
Jindong Yuan	Nanjing University
	Aeronautics and Astronautic
Junfeng Wu	Nanjing University
	Aeronautics and Astronautic
Guohua Kang	Nanjing University
	Aeronautics and Astronautic
15:50-17:50	SunB11.1
1371 Event-triggered Spa	acecraft Formation Flying Control Wi
Guaranteed Performance	9
Tao Guan	Sichuan Uni
Bin Li	Sichuan Uni
Mingming Shi	Sichuan Uni
15:50-17:50	SunB11.1
1372 基于凸优化方法的。	高精度回归轨道最优控制
Yanchao He	Chinese Academy of Space
	Technolog
Lei Zhano	Chinese Academy of Space
	Technolog
Yiiun Yang	Chinese Academy of Space
n jun rang	Technolog
Qian Chen	Chinese Academy of Space
	Technoloc
15.50-17.50	SupB11.1
1375 A lightweight naviga	ation landmarks detection method
based on KDS R-CNN	
Bin Tang	Rocket Force Uni
Xiaogang Yang	Bocket Force Uni
Ruitao Lu	Rocket Force Uni
liwei Fan	Rocket Force Uni
Shuana Su	Rocket i bice on
Shuang Su	Pockot Force Un
Zhonyu Zhong	Rocket Force Uni
Zhenyu Zhang	Rocket Force Uni Rocket Force Uni Rocket Force Uni
Zhenyu Zhang Zhengjie Zhu Zhenbao Chang	Rocket Force Uni Rocket Force Uni Rocket Force Uni Rocket Force Uni
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng	Rocket Force Un Rocket Force Un Rocket Force Un Rocket Force Un
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50	Rocket Force Uni Rocket Force Uni Rocket Force Uni Rocket Force Uni SunB11.1
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu	Rocket Force Uni Rocket Force Uni Rocket Force Uni Rocket Force Uni SunB11.1 ation method based on polarization
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change	Rocket Force Un Rocket Force Un Rocket Force Un Rocket Force Un SunB11.1 ation method based on polarization
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo	Rocket Force Uni Rocket Force Uni Rocket Force Uni Rocket Force Uni SunB11.1 ation method based on polarization Beijing Institute of Technolog
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li	Rocket Force Uni Rocket Force Uni Rocket Force Uni SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing Institute of Technolog
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu	Rocket Force Uni Rocket Force Uni Rocket Force Uni <u>Rocket Force Uni</u> <u>SunB11.1</u> ation method based on polarization Beijing Institute of Technolog Beijing Institute of Technolog Beijing System Design Institu
Zhenyu Zhang Zhengjie Zhu <u>Zhenhao Cheng</u> 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu	Rocket Force Un Rocket Force Un Rocket Force Un Rocket Force Un SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing System Design Institu of Electromechanic
Zhenyu Zhang Zhengjie Zhu <u>Zhenhao Cheng</u> 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu	Rocket Force Un Rocket Force Un Rocket Force Un SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing System Design Institu of Electromechanic Engineerir
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu Xia Wang	Rocket Force Un Rocket Force Un Rocket Force Un <u>Rocket Force Un</u> <u>SunB11.1</u> ation method based on polarization Beijing Institute of Technolog Beijing System Design Institu of Electromechanic Engineerir Beijing Institute of Technolog
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu Xia Wang Jiamei Hao	Rocket Force Uni Rocket Force Uni Rocket Force Uni SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing System Design Institu of Electromechanic Engineerir Beijing Institute of Technolog Beijing Institute of Technolog Beijing Institute of Technolog
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu Xia Wang Jiamei Hao Wenzhen Lv	Rocket Force Uni Rocket Force Uni Rocket Force Uni SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing System Design Institu of Electromechanic Engineerir Beijing Institute of Technolog Beijing Institute of Technolog Beijing Institute of Technolog Beijing Institute of Technolog
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu Xia Wang Jiamei Hao Wenzhen Lv 15:50-17:50	Rocket Force Un Rocket Force Un Rocket Force Un Rocket Force Un SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing System Design Institu of Electromechanic Engineerin Beijing Institute of Technolog Beijing Institute of Technolog
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu Xia Wang Jiamei Hao Wenzhen Lv 15:50-17:50 1377 无人机协同控制技;	Rocket Force Un Rocket Force Un Rocket Force Un Rocket Force Un SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing Institute of Technolog Beijing System Design Institu of Electromechanic Engineerin Beijing Institute of Technolog Beijing Institute of Technolog
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu Xia Wang Jiamei Hao Wenzhen Lv 15:50-17:50 1377 无人机协同控制技; Hongzhong Ma	Rocket Force Uni Rocket Force Uni Rocket Force Uni Rocket Force Uni SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing System Design Institu of Electromechanic Engineerir Beijing Institute of Technolog Beijing Institute of Technolog
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu Xia Wang Jiamei Hao Wenzhen Lv 15:50-17:50 1377 无人机协同控制技巧 Hongzhong Ma	Rocket Force Uni Rocket Force Uni Rocket Force Uni Rocket Force Uni SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing System Design Institu of Electromechanic Engineerir Beijing Institute of Technolog Beijing Institute of Technolog
Zhenyu Zhang Zhengjie Zhu Zhenhao Cheng 15:50-17:50 1376 Heading disambigu change Tao Zuo Leilei Li Kai Liu Xia Wang Jiamei Hao Wenzhen Lv 15:50-17:50 1377 无人机协同控制技巧 Hongzhong Ma	Rocket Force Uni Rocket Force Uni Rocket Force Uni Rocket Force Uni SunB11.1 ation method based on polarization Beijing Institute of Technolog Beijing Institute of Technolog Beijing System Design Institu of Electromechanic Engineerir Beijing Institute of Technolog Beijing Institute of Technolog

15:50-17:50	SunB11.17		
1378 A New Method of Missile Agile Turning Using Terminal			
Sliding Mode Control			
Shuai Xie	Beijing Institute of Technology		
Yong Yu	Beijing Institute of Technology		
Zheng Li	Beijing Institute of Technology		
Jianqiao Yu	Beijing Institute of Technology		
15:50-17:50	SunB11.18		
1382 A Real-Time Esti	mation Method for Magnetic		
Interference of Low-Altitude	JAV Platforms		
Peng Gu	National Space Science Center		
	Chinese Academy of Sciences		
Dong Gao	National Space Science Center		
	Chinese Academy of Sciences		
Chunjiang Bian	National Space Science Center		
	Chinese Academy of Sciences		
Minghui Zhu	National Space Science Center		
	Chinese Academy of Sciences		
	Sciences		
Yichen Wang	National Space Science Center		
	Chinese Academy of Sciences		
15:50-17:50	SunB11.19		
1383 Coordinated Control of	Linear Multi-Agent Systems Based		
on Task Consensus in dynan	nic		
Xudong Ji	Beihang Univ.		
Weiming Li	Beihang Univ.		
Hongxing Wei	Beihang Univ.		
Guo Wu	Beihang Univ.		
15:50-17:50	SunB11.20		
1385 SURF improved brain-in	nspired navigation algorithm based		
on RatSLAM			
Yixin Liu	Beihang Univ.		
Zhihao Zhang	Beihang Univ.		
Lingling Wang	Beihang Univ.		
K. A. Neusypin	Bauman Moscow State		
	Technical Univ.		
M. S. Selezneva	Bauman Moscow State		
	Technical Univ.		
Li Fu	Beihang Univ.		
15:50-17:50	SunB11.21		
1386 A hybrid coverage cont	rol method based on geodesic		
sensing and Voronoi partition	ing for UAVs exploration		
Junwu Li	Shanghai Jiao Tong Univ.		
Chenggang Wang	Shanghai Jiao Tong Univ.		
Bochen Li	Shanghai Jiao Tong Univ.		
Lu Ding	Guangxi Univ.		
Lei Song	Shanghai Jiao Tong Univ.		
Dan Huang	Shanghai Jiao Tong Univ.		
15:50-17:50	SunB11.22		
1388 Multi-source Adaptive F	Fusion Spatiotemporal Network for		
Traffic Emission Prediction			
Guoan Zhang	Univ. of Science and Technology		
	of China		
	Universe Science and Technology		

	of China
Lihong Pei	Univ. of Science and Technology
	of China
Yu Kang	Univ. of Science and Technology
	of China
15:50-17:50	SunB11.23
1389	TR 的密集行人检测算法
Guochen Niu	Civil Aviation Univ. of China
Chongjun Wei	Civil Aviation Univ. of China
15:50-17:50	SunB11.24
1392 基于 CNN-SVM	的卫星导航干扰检测方法
Xiangzong Wu	Nanjing University of Aeronautics and
0	Astronautics
Rui Xu	Naniing University of Aeronautics and
	Astronautics
Yingije Huang	Naniing University of Aeronautics and
	Astronautics
Zhevi Hu	Naniing University of Aeronautics and
,	Astronautics
Qinghua Zeng	Naniing University of Aeronautics and
15.50 17.50	SupB11 25
13.30-17.30	Jult diagnosis of bearings based on ECSE
	In diagnosis of bearings based on ECSE-
NID and Group-Conv	Deihang Univ
	China Institute of Nuclear Industry
NUO ZNAO	China institute of Nuclear Industry
lin Ci	Strategy.
JIN SI	Beijing Institute of Control and
Калина Г анан	
Jiayue Fang	
	Electronic Technology
	Beinang Univ.
15:50-17:50	SunB11.26
1394 Adaptive backste	epping control of an airship attitude in
hovering mode	
Zeyu Wang	Bauman Moscow State Technical Univ.
Ning Tang	Bauman Moscow State Technical Univ.
K.A. Neusypin	Bauman Moscow State Technical Univ.
M.S. Selezneva	Bauman Moscow State Technical Univ.
Li Fu	Beihang Univ.
15:50-17:50	SunB11.27
1395 基于平面拟合的	地面分割方法改进研究
Guochen Niu	Civil Aviation Univ. of China
Zhengyan Yuan	Civil Aviation Univ. of China
15:50-17:50	SunB11.28
1397 H∞ Bumpless	Switching Tracking Control of Tilt-Rotor
UAV Based on AED-A	DT
Xiaoqi Huang	Hohai Univ.
Dawei Wu	Hohai Univ.
Dongjie Zhao	Hohai Univ.
Bolin Wang	Hohai Univ.
A. W. Almebo	Hohai Univ.
15:50-17:50	SunB11.29

Haowen Tian			Be	eihang Univ.
Jiaming Xu			Be	eihang Univ.
Lihong Duan			Be	eihang Univ.
Wenfeng Fan			Be	eihang Univ.
Wei Quan			Be	eihang Univ.
15:50-17:50				SunB11.30
1403 Interacting Multiple	Guidance	Model	for	Interceptor
Intention Prediction				
Haichen Zhang			Be	eihang Univ.
Tengjie Zheng			Be	eihang Univ.
Shengping Gong			Be	eihang Univ.
Lin Cheng			Be	eihang Univ.
15:50-17:50				SunB11.31

1405 A Multi-Constraint Saturated Acceleration Compensation Method for Pedestrian Inertial Navigation under High-Dynamic Gaits Zhidong Meng Beijing Institute of Technology Zhihong Deng Beijing Institute of Technology Lijuan Wang Beijing Institute of Aerospace Control Devices Zhe Li Beijing Institute of Technology Ping Zhang Beijing Institute of Technology 15:50-17:50 SunB11.32 1408 LQR Based Gust Load Alleviation for a Blended-wingbody Aircraft CongJie Yang Shanghai Jiao Tong Univ. Shiqian Liu Shanghai Jiao Tong Univ. Jingzhou Dai Ruan Shanghai Jiao Tong Univ. Qian Zhang Shanghai Jiao Tong Univ. Lianyu Guo Shanghai Jiao Tong Univ. Han Chen Shanghai Jiao Tong Univ. Yunxing Meng Shanghai Jiao Tong Univ. 15:50-17:50 SunB11.33 1410 Neural Network Adaptive Control Enhanced by Meta-Learning-Based Feature Extraction for Hypersonic Vehicles Chaoran Qu, Beihang Univ. Lin Cheng Beihang Univ. Shengping Gong Beihang Univ. 15:50-17:50 SunB11.34 1414 Distributed Observer-based Formation of Discrete-time LTI Systems Wei Xu Nanjing Univ. Xiaoling Wang Nanjing Univ.

1415 Nonparametric Online Learning for Aircraft Residual

Dynamics Driven by Noisy Observations

Wen Yang

Housheng Su

15:50-17:50

Tengjie Zhen

Shengping Gong

Lin Cheng

15:50-17:50

Guidance Law in Endo-a	tmosphere Boost Phase
Jiacheng Deng	Beihang Univ.
Wanchun Chen	Beihang Univ.
Xuehe Zheng	Defense Technology Academy of
	China Aerospace Science & Industry
	Corporation
Shilei Zhao	Beijing Institute Of Control And
	Electronic Technology
Peng Zeng	Beijing Institute of Electronic System
	Engineering,
Chao Wang	Beijing Institute of Electronic System
	Engineering
Liang Yang	Beihang Univ.
15:50-17:50	SunB11.37
1417 Robust Increment	al Learning of Approximate Dynamic
Programming for Nonline	ear Terminal Guidance
Han Wang	Beihang Univ.
Lin Cheng	Beihang Univ.
Shengping Gong	Beihang Univ.
15:50-17:50	SunB11.38
1418 Reinforcement Lea	rning-Incremental Nonlinear Dynamic
Inversion Based Intellige	nt Fault-tolerant Control
Qian Zhang	Shanghai Jiao Tong Univ.
Shiqian Liu	Shanghai Jiao Tong Univ.
Weizhi Lyu	Shanghai Jiao Tong Univ.
Congjie Yang	Shanghai Jiao Tong Univ.
Jingzhou Dai Ruan	Shanghai Jiao Tong Univ.
Han Chen	Shanghai Jiao Tong Univ.
15:50-17:50	SunB11.39
1420 Simulation Study	of AGCAS Based on Digital Terrain
Elevation Data	
Fuxiang Qiao	AVIC Xi'an Flight Automatic Control
	Research Institute
Chen Zhou	AVIC Xi'an Flight Automatic Control
	Research Institute
Dandan Tang	AVIC Xi'an Flight Automatic Control
	Research Institute
Jiahang Lai	AVIC Xi'an Flight Automatic Control
	Research Institute
Wenqian Zhang	AVIC Xi'an Flight Automatic Control
	Research Institute
15:50-17:50	SunB11.40
1421 Reinforcement Lea	arning-Based Optimal Pursuit Strategy
against Satellite Group	
He Ren	Beihang Univ.
Rui Zhong	Beihang Univ.
15:50-17:50	SunB11.41
1423 基于神经网络控制	器的无人机安全降落算法
Shaopeng Yi	Beijing Institute of Technology
Wei Dong	Beijing Institute of Technology
Weilin Wang	Beijing Institute of Technology
Chunyan Wang	Beijing Institute of Technology
Jianan Wang	Beijing Institute of Technology

1416 Three-dimensional Generalized Nominal Effort Miss

East China Univ. of Science and

Huazhong Univ. of Science and

Technology

Technology

SunB11.35

Beihang Univ.

Beihang Univ.

Beihang Univ.

SunB11.36

15:50-17:50	SunB11.42
1431 Autopilot Stal	bilization Analysis of Reentry Vehicle with
Elastic Vibration	
Yusang Hu	Beijing Institute of Control Engineering
	Beijing Institute of Technology
Junhui Liu	
15:50-17:50	SunB11.43
1432 基于视觉的法	无人自主空中加油流程研究
Yiwen Hu	AVIC Chengdu Aircraft Design and
	Research Institute
Во Ма	AVIC Chengdu Aircraft Design and
	Research Institute
Tuo Gou	AVIC Chengdu Aircraft Design and
	Research Institute
Rui Wang	AVIC Chengdu Aircraft Design and
	Research Institute
Tian Yin	AVIC Chengdu Aircraft Design and
	Research Institute
15:50-17:50	SunB11.44
1433 Anti-disturba	nce Control for Aerial-Recovery Drogue
with Flexible Presc	ribed Performance
Junfan Zhu	Beihang Univ.
Honglun Wang	Beihang Univ.
Yanxiang Wang	Beihang Univ.
Yiheng Liu	Beijing Institute of Astronautical System
	Engineering
15:50-17:50	SunB11.45
1441 Multi-mode C	Computation Method for Target Orbit
Reachable Set of L	aunch Vehicle Abort Mission
Haifeng Hu	Beihang Univ.
Zeming Hao	Beijing Aerospace Automatic Control
	Institute
Cong Wang	Beihang Univ.
Ran Zhang	Beijing Aerospace Automatic Control
	Institute
15:50-17:50	SunB11.46
1445 多弹协同打击	与空中目标制导技术研究
Wenshuai Fan	Northwestern Polytechnical Univ.
Rui Pan	Xi'an Modern Control Technology
	Research Institute,
Guicai Fang	Aerospace-Technology-Institute-of-
Yi Luo	CARDC
Yonghua Fan	Northwestern Polytechnical Univ.
	Northwestern Polytechnical Univ.
15:50-17:50	SunB11.47
1446 Attitude Cont	rol tor the Chinese Satellite-to-satellite
Iracking Gravimeti	y System
	Beijing Institute of Control Engineering
Yiwu Liu	Beijing Institute of Control Engineering
Bin Guan	Beijing Institute of Control Engineering
15:50-17:50	SunB11.48
1448 一种线性时3	<i>飞模型预测控制算法</i>
Guochen Niu	Civil Aviation Univ. of China
Fian Chen	Civil Aviation Univ. of China

Chongjun Wei	Civil Aviation Univ. of China		
15:50-17:50	SunB11.49		
1451 Comparison of Sirr	nplified Dynamics Models for		
Powered Descent Guidance Problem			
Xinglun Chen	Beihang Univ.		
Ran Zhang	Beihang Univ.		
Huifeng Li	Beihang Univ.		
15:50-17:50	SunB11.50		
1452 Research of Key Te	echnologies for Cooperative Navigation		
of Unmanned swarm in S	Satellite Denial Environments		
Ruoning Wang	National Key Laboratory of Complex		
	System Control and Intelligent Agent		
	Cooperation		
Hongli Zhou	National Key Laboratory of Complex		
	System Control and Intelligent Agent		
	Cooperation		
Hongchun Li	National Key Laboratory of Complex		
	System Control and Intelligent Agent		
	Cooperation		
Wenxing Fu	National Key Laboratory of Complex		
	System Control and Intelligent Agent		
	Cooperation		
15:50-17:50	SunB11.51		
1453 Predefined-Time D	isturbance Observer based		
Hit-to-Kill Guidance Law			
Chengyu Zhao	Dalian Univ. of Technology		
Feng Yang	Dalian Univ. of Technology		
Ziheng Cheng	Dalian Univ. of Technology		
15:50-17:50	SunB11.52		
1455 Research on the A	rchitecture of Distributed Hardware-in		
-the-loop Simulation Sys	tem Based on RTX		
Ciyu Ji	China North Industries Group		
	Corporation Limited Aviation		
	Ammunition Institute		
Yangyang Zhao	China North Industries Group		
	Corporation Limited Aviation		
	Ammunition Institute		
Jinyu Bao	China North Industries Group		
	Corporation Limited Aviation		
	Ammunition Institute		
Changwei Mi	China North Industries Group		
	Corporation Limited Aviation		
	Ammunition Institute		
Wentao Fan	China North Industries Group		
	Corporation Limited Aviation		
	Ammunition Institute		
15:50-17:50	SunB11.53		
1456 Research on Meth	od of Enhanced Aero Engine Control		
for Emergency Operatin	g Based on the Relaxation of Limit		
protection parameter			
Sirui Pan	Civil Aviation Univ. of China		
Wei Wang	Civil Aviation Univ. of China		
15:50-17:50	SunB11.54		

1457 Nonlinear Model Predictive Control Deployed

on Embedded Platform for a Small Unmanned Helicopter			
Ding Xu	South China Univ. of Technology		
Hailong Pei	South China Univ. of Technology		
15:50-17:50	SunB11.55		
1458 A Scenario Generation Method for Newly-built			
PV Plants Based on Tran	sfer Learning		
Mingyu Ke	Southeast Univ.		
Wenwu Yu	Southeast Univ.		
Hongzhe Liu	Southeast Univ.		
Zeci Chen	Southeast Univ.		
15:50-17:50	SunB11.56		
1460 基于全柔性建模的热	轮面液压伺服控制分析方法研究		
Zhenyu Liu	AVIC Shenyang Aircraft Design and		
	Research Institute		
Xiaohua Bi	AVIC Shenyang Aircraft Design and		
	Research Institute		
Lei Zhang	AVIC Shenyang Aircraft Design and		
	Research Institute		
Zehua Ge	AVIC Shenyang Aircraft Design and		
	Research Institute		
Tianyu Zhang	AVIC Shenyang Aircraft Design and		
	Research Institute		
15:50-17:50	SunB11.57		
1462 Learning to Navigat	e under Unified Scene Style		
Xinru Cui	Shanghai Jiao Tong Univ.		
Zhe Liu	Shanghai Jiao Tong Univ.		
Yue Gao	Shanghai Jiao Tong Univ.		
15:50-17:50	SunB11.58		
15:50-17:50 1463 Trajectory Prediction	SunB11.58 n and Cooperative Interception		
15:50-17:50 1463 Trajectory Prediction Strategy for Maneuverable	SunB11.58 n and Cooperative Interception le Hypersonic Target		
15:50-17:50 1463 Trajectory Prediction Strategy for Maneuverable Kaize Yu	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ.		
15:50-17:50 1463 Trajectory Predictio Strategy for Maneuverable Kaize Yu Xiaosong Li	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle		
15:50-17:50 1463 Trajectory Predictio Strategy for Maneuverable Kaize Yu Xiaosong Li	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ.		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle		
15:50-17:50 1463 Trajectory Predictio Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology		
15:50-17:50 1463 Trajectory Predictio Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang	SunB11.58 n and Cooperative Interception le Hypersonic Target Eeihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang	SunB11.58 n and Cooperative Interception le Hypersonic Target China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50	SunB11.58 In and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology SunB11.59		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology SunB11.59		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航员 Xuerui Zhang	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航的 Xuerui Zhang Qijun Luo	SunB11.58 n and Cooperative Interception le Hypersonic Target Eeihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航品 Xuerui Zhang Qijun Luo Yong Chen	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology SunB11.59 約场面多尺度目标检测 Civil Aviation Univ. of China Civil Aviation Univ. of China Civil Aviation Univ. of China		
15:50-17:50 1463 Trajectory Predictio, Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航展 Xuerui Zhang Qijun Luo Yong Chen	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航的 Xuerui Zhang Qijun Luo Yong Chen Kelin Zhong	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology SunB11.59		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航码 Xuerui Zhang Qijun Luo Yong Chen Kelin Zhong	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology SunB11.59		
15:50-17:50 1463 Trajectory Predictio Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航展 Xuerui Zhang Qijun Luo Yong Chen Kelin Zhong Tao Zhang	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle SunB11.59 的场面多尺度目标检测 Civil Aviation Univ. of China Civil Aviation Univ. of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Civil Aviation Univ. of China		
15:50-17:50 1463 Trajectory Predictio. Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航品 Xuerui Zhang Qijun Luo Yong Chen Kelin Zhong Tao Zhang 15:50-17:50	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology SunB11.59 b/场面多尺度目标检测 Civil Aviation Univ. of China Civil Aviation Univ. of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Civil Aviation Univ. of China Civil Aviation Univ. of China		
15:50-17:50 1463 Trajectory Predictio, Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航に Xuerui Zhang Qijun Luo Yong Chen Kelin Zhong Tao Zhang 15:50-17:50 1470 空间引力波探测惯制	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology SunB11.59 b//smaS尺度目标检测 Civil Aviation Univ. of China Civil Aviation Univ. of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Civil Aviation Univ. of China Civil Aviation Univ. of China Commercial Aircraft Corporation of China Civil Aviation Univ. of China		
15:50-17:50 1463 Trajectory Prediction Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu Chunwang Jiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航器 Xuerui Zhang Qijun Luo Yong Chen Kelin Zhong 15:50-17:50 1470 空间引力波探测惯行 Qianyun Zhang	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology SunB11.59 b/56m367/g月标检测 Civil Aviation Univ. of China Commercial Aircraft Corporation of China Civil Aviation Univ. of China Commercial Aircraft Corporation of China Civil Aviation Univ. of China Civil Aviation Univ. of China Civil Aviation Univ. of China Civil Aviation Univ. of China Civil Aviation Univ. of China		
15:50-17:50 1463 Trajectory Prediction Strategy for Maneuverable Kaize Yu Xiaosong Li Jianglong Yu ChunwangJiang Qingke Tan Yanyan Wang 15:50-17:50 1469 面向民机可视导航器 Xuerui Zhang Qijun Luo Yong Chen Kelin Zhong 15:50-17:50 1470 空间引力波探测惯例 Qianyun Zhang Shufan Wu	SunB11.58 n and Cooperative Interception le Hypersonic Target Beihang Univ. China Academy of Launch Vehicle Technology Beihang Univ. China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology China Academy of Launch Vehicle Technology SunB11.59 M场面多尺度目标检测 Civil Aviation Univ. of China Civil Aviation Univ. of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Commercial Aircraft Corporation of China Civil Aviation Univ. of China Civil Aviation Univ. of China Commercial Aircraft Corporation of China Civil Aviation Univ. of China SunB11.60 型传感器静电反馈控制系统设计 Shanghai Jiao Tong Univ.		

15:50-17:50	SunB11.61
1509 The Method of Air	rcraft Strapdown Inertial Navigation
Calibration Based on PSC	D-LSTM Network
Wenyuan Cong	Ningbo Institute of Materials
	Technology and Engineering
Fengrui Xu	Ningbo Institute of Materials
	Technology and Engineering
Feifan Yu	Ningbo Institute of Materials
	Technology and Engineering
Xinmin Chen	Ningbo Institute of Materials
	Technology and Engineering
Yue Lin	Ningbo Institute of Materials
	Technology and Engineering
15:50-17:50	SunB11.62
1474 Fault-tolerant orbit and	d attitude control for satellite formation
with leader-following configu	uration
Liming Fan	Beijing Institute of Spacecraft
-	System Engineering
Qiang Zhang	Beijing Institute of Spacecraft
	System Engineering
Guangde Xu	Beijing Institute of Spacecraft
Ū.	System Engineering
Zongbo He	Beijing Institute of Spacecraft
	System Engineering
Mingyang Zhang	Beijing Institute of Spacecraft
3,4 3 4 3	System Engineering
15:50-17:50	SunB11.63
1475 Suitability Analysis of	Scene Matching Navigation Based
on Multiscale Co-Occurrenc	e Matrices
Nan Liu	AVIC Xi'AN Flight Automatic
	Control Research Institute
Xiaodong Zhang	AVIC Xi'AN Flight Automatic
0 0	Control Research Institute
Qi Zhou	AVIC Xi'AN Flight Automatic
	Control Research Institute
Huaxia Wang	Taiyuan University of Science and
Ū	Technology
15:50-17:50	SunB11.64
1477 Robust Fusion of Mult	i-Spacecraft Observations for
Non Cooperative Target Sta	
Non-Cooperative rarget Sta	te Estimation
Yiming Fang	te Estimation Beijing University of Posts
Yiming Fang	te Estimation Beijing University of Posts and Telecommunications
Yiming Fang Xiangtian Zhao	te Estimation Beijing University of Posts and Telecommunications Beijing University of Posts
Yiming Fang Xiangtian Zhao	te Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications
Yiming Fang Xiangtian Zhao Mugen Peng	te Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts
Yiming Fang Xiangtian Zhao Mugen Peng	te Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications
Yiming Fang Xiangtian Zhao Mugen Peng Yafei Zhao	te Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts
Yiming Fang Xiangtian Zhao Mugen Peng Yafei Zhao	the Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications
Yiming Fang Xiangtian Zhao Mugen Peng Yafei Zhao Guangrong Lin	the Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Yinhe Hangtian Technology
Yiming Fang Xiangtian Zhao Mugen Peng Yafei Zhao Guangrong Lin	the Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Yinhe Hangtian Technology (Shanghai) Co., Ltd.
Yiming Fang Xiangtian Zhao Mugen Peng Yafei Zhao Guangrong Lin 15:50-17:50	the Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Yinhe Hangtian Technology (Shanghai) Co., Ltd.
Yiming Fang Xiangtian Zhao Mugen Peng Yafei Zhao Guangrong Lin 15:50-17:50 1479 基于 Hp 自适应伪谱法	the Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Yinhe Hangtian Technology (Shanghai) Co., Ltd. SunB11.65
Yiming Fang Yiming Fang Xiangtian Zhao Mugen Peng Yafei Zhao Guangrong Lin <u>15:50-17:50</u> 1479 基于 Hp 自适应伪谱法 LingWei Kong	the Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Yinhe Hangtian Technology (Shanghai) Co., Ltd. SunB11.65 法的飞机速度矢量控制优化 Beihang University
Yiming Fang Yiming Fang Xiangtian Zhao Mugen Peng Yafei Zhao Guangrong Lin <u>15:50-17:50</u> <u>1479 基于 Hp 自适应伪谱法</u> LingWei Kong WeiQi Li	the Estimation Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Beijing University of Posts and Telecommunications Yinhe Hangtian Technology (Shanghai) Co., Ltd. SunB11.65 陈的飞机速度矢量控制优化 Beihang University Beihang University

15:50-17:50	SunB11.66
1482 Adaptive Micro-step	OUnscented Kalman Filter based on
Sigma Points Symmetry	
Aiping Wang	Beihang University
Hai Zhang	Beihang University
Hongliang Huang	Beihang University
15:50-17:50	SunB11.67
1486 Research on Fuzzir	ng of Autonomous Driving Systems
Pengcheng Wang	Beihang University
Simiao Gao	Beihang University
Zhonghao Li	Beihang University
15:50-17:50	SunB11.68
1487 Research on the inf	fluence of tactical evolution on
operational effectiveness	of agents
Quanlin Qi	AVIC Xi'AN Flight Automatic
	Control Research Institute
Pengbo Wu	AVIC Xi'AN Flight Automatic
-	Control Research Institute
Weijia Wang	AVIC Xi'AN Flight Automatic
, ,	Control Research Institute
Jie Chen	AVIC Xi'AN Flight Automatic
	Control Research Institute
15:50-17:50	SunB11.69
1488 A Modular Transfe	erable Network for Visual Navigation in
Unstructured Environmer	nts
Nanxi Chen	Shanghai Jiao Tong University
Zhe Liu	Shanghai Jiao Tong University
Tangwen Yin	Shanghai Jiao Tong University
15:50-17:50	SunB11 70
1489 Evolutionary Gam	e-based Decision Making for LIAV Air
Combat Manoeuvres	
Lei Sun	Naniing University of Aeronautics
Loroun	and Astronautics
Yuhui Wang	Naniing University of Aeronautics
Tunui Wang	and Astronautics
Tongle Zhou	Naniing University of Aeronautics
	and Astronautics
Zengliang Han	Naniing University of Aeronautics
Zengliang nan	and Astronautics
15.50-17.50	SupB11 71
1402 Spatio Temporal E	ilight Tube Planning for Launch Vehicle
Debris Avoidance	nght rube rhanning for Launch vehicle
Kang Guo	Reibang University
Kang Guo	Beihang University
ruan zhang	Beihang University
15:50-17:50	SunB11.72
1496 附加钟速约束的卫星	<i>崔头时钟差估计万法</i>
Hui Li	Harbin Engineering University
Wenzhen Peng	Harbin Engineering University
Xue Liu	Harbin Engineering University
Lihong Mo	Harbin Engineering University
15:50-17:50	SunB11.73

Zihui Yan	Air Force Engineering University	
Xiaolong Liang	Air Force Engineering University	
Yueqi Hou	Air Force Engineering University	
Aiwu Yang	Air Force Engineering University	
Aoyu Zheng	Air Force Engineering University	
15:50-17:50	SunB11.74	
1498 Fault diagnosis o	of satellite power system based on	
Improved single-param	neter decision-theoretic rough set and	
SVM for hybrid data		
Yanchen Dong	Beihang University	
Nuo Zhao	China institute of nuclear strategy	
Jingyi Xing	Beihang University	
Ke Ma	Beihang University	
Mingliang Suo	Beihang University	
15:50-17:50	SunB11.75	
1502 A Method for Acc	urate Setting of Missile Working Time	
Sequence Benchmark		
Kun Zhang	Xi'an Modern Control Technolog	
	Research Institute	
Bin Han	Xi'an Modern Control Technolog	
	Research Institute	
Yining Yang	Xi'an Modern Control Technolog	
	Research Institute	
Yue Jiang	Xi'an Modern Control Technology	
	Research Institute	
Ming Liu	Shaanxi Normal University	
Shichao Ma	AVIC Xi'an Flight Automatic Contro	
	Research Institute	
15:50-17:50	SunB11.76	
1504 Application of YC)LOv5 in SAR image ship target detection	
Tao Zhang	Southeast Universit	
He Wang	Southeast Universit	
Wenwu Yu	Southeast Universit	
15:50-17:50	SunB11.77	
1506 Cooperative Guid	Jance Law with Variable Velocity for	
Impact Time and Angle	> Control	
Mengke Zhao	Tsinghua Universit	
Ruiging Wu	Unit 91776 of PL	
Heng Shi	Tsinghua University	
Huijie Dong	Unit 91776 of PL	
Luhua Yang	Tsinghua University	
Zhiqiang Cheng	Maritime Security Research Cente	
15:50-17:50	SunB11.78	
1507 一种基于 PID 控	制的动态队列限制算法	
Yuntao Wang	Southeast Universit	
Wenwu Yu	Southeast Universit	
Zeci Chen	Southeast Universit	
Haofei Meng	Southeast Universit	
15:50-17:50	SunB11.79	
1508 A Collaborative C	Control Method for Spacecraft Clusters	
Based on Multi agent F	Reinforcement Learning	
Xi Liang	Harbin Institute of Technolog	
Cheng Wei	Harbin Institute of Technology	
Jianbo Zhao	Beijing Institute of Astronautica	

 Research on Time-Coordinated Strategy for UAV Swarm Cooperative Attack on Multiple Ground-Moving Targets

	Systems Engineering
Peng Wang	Beijing Institute of Astronautical
	Systems Engineering
Zihao Cheng	Beijing Institute of Astronautical
	Systems Engineering
15:50-17:50	SunB11.80
1510 Mars Aero-Ballistic	Capture
Zongfu Luo	Sun Yat-sen University
Chuankai Zhou	Sun Yat-sen University
15:50-17:50	SunB11.81
1511 Image Captioning B	Based on Scene Graph Optimization
Zi Wang	Southeast University
He Wang	Southeast University
Huazhou Hou	Purple Mountain Laboratories
Wenwu Yu	Southeast University
15:50-17:50	SunB11.82
1512 A Review of Multi-U	IAV Collaboration in Adversarial
Environments Based on I	Deep Reinforcement Learning
Yuting Liu	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
Hang Zhang	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
Hongyin Zhao	National Key Laboratory of
	Complex System Control and
	Intelligent Agent Cooperation
15:50-17:50	SunB11.83
1513 Direct Lift Control L	anding of Carrier-based Aircraft Based
on Preview Control	
Jie Wang	Naval Aviation University
Yang Zhang	Naval Aviation University
Ziyang Zhen	Nanjing University of Aeronautics
	and Astronautics
Liting Song	Naval Aviation University
15:50-17:50	SunB11.84
1514 一种资源受限下的。	联邦学习优化方法
Xiaoyu Wang	Southeast University
Wenwu Yu	Southeast University
Zeci Chen	Southeast University
Haofei Meng	Southeast University
15:50-17:50	SunB11.85
1515 UAV Swarm based	on Intelligence Avoidance Scheme
lie Zhang	Nanjing University of Aeronautics and
Sie Zhàng	Astronautics
Menghua Zhou	Nanjing University of Aeronautics and
	Astronautics
Hanlin Sheng	Nanjing University of Aeronautics and
	Astronautics
15:50-17:50	SunB11.86
1517 A Translation Metho	od from SAR Images to Optical Images
	National Key Laboratory of Science and
Zhenpo Tian	Technology on Aerospace Intelligent

jineering		National Key Laboratory of Science and
onautical	Wen Ju	Technology on Aerospace Intelligent
jineering		Control
onautical		National Key Laboratory of Science and
jineering	Yuecheng Liu	Technology on Aerospace Intelligent
nB11.80		Control
	15:50-17:50	SunB11.87
niversity	1518 Research Revie	ew on Path Planning for Multi-UAVs
niversity	Cooperative Search	
nB11.81		National Key Laboratory of Complex
ation	Hongyin Zhao	System Control and Intelligent Agent
niversity		Cooperation
niversity		National Key Laboratory of Complex
oratories	Hang Zhang	System Control and Intelligent Agent
niversity		Cooperation
nB11.82		National Key Laboratory of Complex
	Yuting Liu	System Control and Intelligent Agent
		Cooperation
ratory of		National Key Laboratory of Complex
ntrol and	Weixue Li	System Control and Intelligent Agent
peration		Cooperation
ratory of	15:50-17:50	SunB11.88
ntrol and	1519 Analysis of the	current development status of overseas
peration	maritime search and	rescue systems
ratory of	Huaiyi Guan	Naval Engineering University
ntrol and	Jun Fu	Naval Engineering University
peration	Hongwei Wei	Naval Engineering University
nB11.83	Bao Li	Naval Engineering University
Based	Pengfei Jiang	Naval Engineering University
	Deying Yu	Naval Engineering University
niversity	15:50-17:50	SunB11.89
niversity	1522 Drone-based M	ulti-object Tracking Combining Camera
onautics	Motion Information ar	nd Single Object Tracking
onautics	Pobui Fong	Northwestern Polytechnical
niversity	Bonul Fang	University
nB11.84	Waine Shaa	Northwestern Polytechnical
	weiyu Shao	University
niversity	Vubong Zhong	Northwestern Polytechnical
niversity	Tunang Zneng	University
niversity	Too Vong	Northwestern Polytechnical
niversity	Tao Fally	University
nB11.85	15:50-17:50	SunB11.90
me	1523 Hierarchical Lea	ader-Follower Control Consistency Analysis
utics and	Weihan Li	Harbin Engineering University
onautics	Yingying Zhang	Harbin Engineering University
utics and	Zhi Zhang	Harbin Engineering University
onautics	Man Zhou	Harbin Engineering University
utics and	15:50-17:50	SunB11.91
onautics	1525 Experimental Pe	erformance Evaluation of Porous
nB11.86	Transducer-Based Lie	quid Circular Angular Accelerometers
Images	Simai Wang	Beijing Institute of Technology
ence and	Meiling Wang	Beijing Institute of Technology
ntelligent	Kexuan Zhai	Beijing Institute of Technology
Control	Maoqi Ran	Beijing Institute of Technology

Chaoyang Zhai	Beijing Institute of Technology	
15:50-17:50	SunB11.92	
1526 On-Orbit Mass Pr	operty Identification Algorithm	
Based on Manipulator-L	Driven Electric Thruster and Least	
Squares Method		
Yulong Shen	Beihang University	
Lei Jin	Beihang University	
Foi Don	Shanghai Aerospace Control	
FeiFall	Technology Institute	
Xiaotong Zhang	Shanghai Aerospace Control	
	Technology Institute	
15:50-17:50	SunB11.93	
1529 A Multi-Agent Rei	nforcement Learning Framework for	
Coordinated Multi-UAV	Interception Strategies	
Hong Chen	Guangxi University	
Bochen Li	Shanghai Jiao Tong University	
Chenggang Wang	Shanghai Jiao Tong University	
Lu Ding	Guangxi University	
Lei Song	Shanghai Jiao Tong University	
15:50-17:50	SunB11.94	
1534 基于误差状态消息	息传递的新型多传感器融合方法	
Jun Xiona	Nanjing University of Posts and	
burrytiong	Telecommunications	
Xiang-peng Xie	Nanjing University of Posts and	
, liang pong , lio	Telecommunications	
Zhi Xiona	Nanjing University of Aeronautics	
g	and Astronautics	
Yuan Zhuang	Wuhan University	
15:50-17:50	SunB11.95	
1536 基于双流特征提取	取网络的车路协同感知方法	
Guochen Niu	Civil Aviation University of China	
Xiangyu Sun	Civil Aviation University of China	
Zhengyan Yuan	Civil Aviation University of China	
15:50-17:50	SunB11.96	
1539 Troubleshootin	ng Decision-making Method Using	
Reinforcement Learning	g Approach	
Qiang Zhang	Beijing Institute of Control	
	Engineering	
Limei Tian	Beijing Institute of Control	
	Engineering	
Baoding Liu	Beinang University	
Yingguang Wang	Beijing Institute of Control	
	Engineering	
Jiyang hang		
	Engineering Reijing Institute of Central	
Ming Lu		
	Engineering Roiiing Institute of Control	
Yuewei Hu		
Weiheng Zhao		
	Engineering Boiiing Institute of Control	
Nuo Su		
15.50-17.50	SupP11.07	
13.30-17.30	Sund 11.9/	

1540 基于软件无线电的蜂群无人机通信系统设计

11.92	Zhinan Liu	AVIC Shenyang Aircraft Design
		Research Institute
	Weichen Wang	Xi'an Technological University
	Viconing Mo	AVIC Shenyang Aircraft Design
ersity	Xiaoning wa	Research Institute
ersity	Haoran Gong	AVIC Shenyang Aircraft Design
ontrol		Research Institute
stitute	15:50-17:50	SunB11.98
ontrol	1541 <i>罗兰</i> C 接收机	前端滤波方法研究
stitute	Dahai Zhao	AVIC Shenyang Aircraft Design
11.93		and Research Institute
	Hao Wu	Xi'an Technological University
	Huifeng shi	AVIC Shenyang Aircraft Design
ersity	0	and Research Institute
ersity	Xiaoning Ma	AVIC Shenyang Aircraft Design
ersity		and Research Institute
ersity	15:50-17:50	SunB11.99
ersity	1542 旋翼飞行器自_	主决策与航路规划技术综述
11.94	Fulona Jina	AVIC Shenyang Aircraft Design and
	· •····g •···g	Research Institute
s and	Jinrong Li	Xidian University
ations	Xiaoning Ma	AVIC Shenyang Aircraft Design and
s and	· · · · · · · · · · · · · · · · · · ·	Research Institute
ations	linli	AVIC Shenyang Aircraft Design and
autics		Research Institute
autics	15:50-17:50	SunB11.100
ersity	1545 Robust close f	ormation flight control based on vector fields
11.95	Ruiping Zheng	Northwestern Polytechnical University
	Qi Zhu	Northwestern Polytechnical University
China	Yongxi Lyu	Northwestern Polytechnical University
China	Jingping Shi	Northwestern Polytechnical University
China	15:50-17:50	SunB11.101
11.96	1550 面向装备论证	的体系仿真关键技术
Using	Wenyu Niu	Aviation Industry Corporation of
ontrol	Jiaqiang Zhu	Aviation Industry Corporation of
ering		China
ontrol	Jing He	Aviation Industry Corporation of
ering	45 50 47 50	China
ersity	15:50-17:50	SunB11.102
ontrol	1554 Specified Impa	ict Time Guidance Law against A Stationary
ering	larget with Wind Dis	turbance
ontrol	Yikun Yang	Beihang University
ering	Jianglong Yu	Beihang University
ontrol	Xiaoduo Li	Beihang University
ering	Xiwang Dong	Beihang University
ontrol	15:50-17:50	SunB11.103
eering	1559 基于能量爬升的	的空天飞行器两级入轨分离点优化研究
ontrol	Xiaole Yin	Nanjing University of Aeronautics
ering		and Astronautics
ontrol	Bovi Chen	Nanjing University of Aeronautics
ering		and Astronautics
11.97	Hao Lei	Jiangsu Institute of Metrology

Yanbin Liu	Nanjing University of Aeronautics
	and Astronautics
15:50-17:50	SunB11.104
1560 飞行器姿态控制永磁电机	控制器热场分析
Zhichao Tian	AVIC Qingan Group Co., Ltd
15:50-17:50	SunB11.105
1561 基于 ANSYS Maxwell 的	的旋转变压器接线故障模式分析
Feng Liu	AVIC Qingan Group Co., Ltd
Bo Wang	AVIC Qingan Group Co., Ltd
Yue Xia	AVIC Qingan Group Co., Ltd
Wenjing Cui	AVIC Qingan Group Co., Ltd
15:50-17:50	SunB11.106
1565 导叶控制装置线位移传感	<i>器输出异常故障研究</i>
Peng Xia	AVIC Qingan Group Co., Ltd
15:50-17:50	SunB11.107
1567 A comprehensive review	of target tracking control for UAV
formation	
Hao Yu	Naval Aviation University
Xiuxia Yang	Naval Aviation University
Yi Zhang	Naval Aviation University
Zijie Jiang	Naval Aviation University
15:50-17:50	SunB11.108
1574 Efficient Path Planning f	for UAV Formation Using Dubins
Paths	
Jiazhan Gao	Xinijang University
Minchi Kuang	Xinijang University
Hena Shi	Tsinghua University
Xiaming Yuan	Tsinghua University
Jihona Zhu	Xinijang University
Zhi Qiao	Tsinghua University
15:50-17:50	SunB11.109
1576 The Dual-Antenna Movin	ng Base North Finding Technique
with Baseline and Attitude Con	straints
	AVIC Xi'an Flight Automatic
Qi Zhou	Control Research Institute
	AVIC Xi'an Flight Automatic
Guangen Gao	Control Research Institute
	AVIC Xi'an Flight Automatic
Kai Cheng	Control Research Institute
	AVIC Xi'an Flight Automatic
Jie Huang	Control Research Institute
15:50-17:50	SunB11.110
1577 利用准逆轨拦截提升对机	动目标的引战配合效率
_	Shanghai Electro-Mechanical
Dongyang Fang	Engineering Institute
	Shanghai Electro-Mechanical
Junlong Bao	Engineering Institute
15:50-17:50	SunB11.111
1582 Design and working mod	al analysis of a rotary actuator
system with hydraulic mutually	exclusive function for main and
standby valve-controlled motor	
Bing Han	AVIC Qingan Group Co., Ltd
Minxiang Chen	AVIC Qingan Group Co., Ltd
15:50-17:50	SunB11.112

The Mechanism and Conception of Collaborative Application of Foreign UAV Swarm

Minaria Den	Air Force Early Warning
Mingqiu Ren	Academy
Dia antia M/ana	Air Force Early Warning
Bingqie wang	Academy
Vanguin Zhang	Air Force Early Warning
Yongxin Zhang	Academy
15:50-17:50	SunB11.113
1589 The analysis of inf	fluencing factors on geophysical field
matching	
Shengwu Zhao	Beijing Institute of Technology
Wenzhe Zhang	Beijing Institute of Technology
Yu Wang	Beijing Institute of Technology
Zhihong Deng	Beijing Institute of Technology
15:50-17:50	SunB11.114
1593 Spin Dynamics S	Simulation and Analysis with Improving
Hybrid Kalviste Decomp	oosing Method
Lianghui Tu	Nanchang Hangkong University
Zhenwen Li	Nanchang Hangkong University
Ziliang Xie	Nanchang Hangkong University
Jian Fu	Nanchang Hangkong University
Chao Yan	Nanchang Hangkong University
15:50-17:50	SunB11.115
1596 Simulation Modeli	ng of Aircraft Virtual Maintenance
Svstem Based on Petri	Nets
ç Qingxia Qin	Civil Aviation University of China
C C	Beijing Aircraft Maintenance
Yu Wang	Engineering Co., Ltd
Xihua Ma	HNA Aviation Technology Co., Ltd
15:50-17:50	SunB11.116
1598 Rapid Prediction N	Method of Impact Point for Spin Inertial
Reentry under The Bou	ndary-Layer Transition
Shaoyue He	Beijing Institute of Technology
	Beijing Mechanical and Electrical
Qixin Ma	Engineering Institute
	Beijing Institute of Space long
Qiang Li	march vehicle
Qiuqiu Wen	Beijing Institute of Technology
	Science and Technology on Near-
Fei Peng	Surface Detection Laboratory
15:50-17:50	SunB11.117
1600 Online Calibration	Method for Missile-borne MEMS
Gyroscopes assisted by	Three-axis Geomagnetic Sensors
, ,	Nanjing University of Science
Wenchao Mu	and Technology
Fangxiu Jia	Nanjing University of Science
	and Technology
15:50-17:50	SunB11.118
1601 High stability and	precision sliding mode robust control of
two-axis inertial stabilize	ation platform
Suwan Bu	Beihang University
Liang Yan	Beihang University
Nannan Du	Reihang University
aman bu	Domaing Oniversity

Xinghua He	Beihang University
15:50-17:50	SunB11.119
1608 基于改进人工蜂群氛	包法的地下空间空地协同探测传感器优
化配置	
	Nanjing University of Aeronautics and
Rongyi Bai	Astronautics
	Nanjing University of Aeronautics and
Mou Chen	Astronautics
	Nanjing University of Aeronautics and
Tongle Zhou	Astronautics
	Nanjing University of Aeronautics and
Kenan Yong	Astronautics
15:50-17:50	SunB11.120
1473 Optimization Meth	nod for Lunar Navigation Satellite
Constellation Targeting Sc	buth Pole
Shuo Yang	Beibang University
Rui Zhong	Beibang University
15:50-17:50	SunB11 121
1563 Experimental Investi	antions on the Movement Performance
of Hydraulic Actuation Sys	stem of the Thrust Reverser Device
Vangtao Tian	
Kai Zhao	
1 aligyalig Au	Avic Qingan Gloup Co., Etd
10.00-17.00	Sui B 11. 122
Ostallita Farmatian	Management of Electromagnetic
	Naniing Univ. of Colones and
Tingying Song	
Oingrui Zhou	
Oingwai Chan	Naniing Univ. of Science and
Qingwei Chen	
lingDong Diao	Qian Xuasan Laboratory of Space
Jingbong Diao	
15.50 17:50	SupP11 122
15:50-17:50	SuilB11.123
1614 Multidisciplinary Des	sign Optimization of Air and Space
Aircraft Based on 3D CST	Approach
Hua Su	Northwestern Polytechnical Univ.
	Northwestern Polytechnical Univ.
Songyu Liu	Northwestern Polytechnical Univ.
Chunlin Gong	Northwestern Polytechnical Univ.
15:50-17:50	SunB11.124
1620 A Simultaneous Nav	igation and Calibration Method
Based on Underwater Bea	acon Array with Random Locations
Ge Zhang	Harbin Institute of Technology
Guoxing Yi	Harbin Institute of Technology
Zhennan Wei	Harbin Institute of Technology
Hao Wang	Harbin Institute of Technology
Ziyang Qi	Harbin Institute of Technology
15:50-17:50	SunB11.125
1622 Space-Time Cooper	ative Guidance Method Based on
Differential Game with Fin	ite-Time Convergence
Zhan Chen	Northwestern Polytechnical Univ.

Wenxing Fu

Jiaqi Chen	Northwestern Polytechnical Univ.
Dingwen Zhang	Northwestern Polytechnical Univ.
Weinan Zhao	Northwestern Polytechnical Univ.
Lei Li	Beijing Electro-Mechanical
	Engineering Institute
Jun Ren	Beijing Electro-Mechanical
	Engineering Institute
Hang Qi	Beijing Electro-Mechanical
	Engineering Institute
Ruitao Lu	Rocket Force University of
	Engineering
Junwei Han	Northwestern Polytechnical Univ.
15:50-17:50	SunB11.128
1629 Transformer based	l visual inertial odometry
Sicheng Fei	Northwestern Polytechnical Univ.
Jingfeng Li	Northwestern Polytechnical Univ.
Lei Li	Beijing Electro-Mechanical
	Engineering Institute
Jie Liang	Beijing Electro-Mechanical
	Engineering Institute
Jinwen Hu	Northwestern Polytechnical Univ.
Dingwen Zhang	Northwestern Polytechnical Univ.
Junwei Han	Northwestern Polytechnical Univ.
15:50-17:50	SunB11.129
1630 Fault Diagnosis of	the Satellite with Limited
Unlabeled Data through	Deep Domain Adaptation
Xurui Bao	Beihang Univ.
Hua Song	Beihang Univ.
15:50-17:50	SunB11.130
1635 Risk Assessment a	and Analysis of the Marine
Environment for Ice Nav	igation in the Arctic Sea Routes
Xiaoting Yu	CSSC Marine Technology Co.,Ltd
Wenjing Shi	CSSC Marine Technology Co.,Ltd
Qingzhe Wang	CSSC Marine Technology Co.,Ltd
Ying Yao	CSSC Marine Technology Co.,Ltd
Xiaoyong Bai	CSSC Marine Technology Co.,Ltd
Yun Cong	CSSC Marine Technology Co. Ltd
Aut Gong	eeee manne reenneregy een,21a
15:50-17:50	SunB11.131
	Jiaqi Chen Dingwen Zhang Weinan Zhao Lei Li Jun Ren Hang Qi Ruitao Lu Junwei Han 15:50-17:50 1629 Transformer based Sicheng Fei Jingfeng Li Lei Li Jie Liang Jinwen Hu Dingwen Zhang Junwei Han 15:50-17:50 1630 Fault Diagnosis of Unlabeled Data through Xurui Bao Hua Song 15:50-17:50 1635 Risk Assessment a Environment for Ice Naw Xiaoting Yu Wenjing Shi Qingzhe Wang Ying Yao Xiaoyong Bai Xun Gong

Mengjing Gao Ruitao Zhang

Yangwang Fang

1623 基于强化学习的履带式无人车导航路径跟踪控制

1625 Source-free One-shot Infrared Video Object Segmentation Based on the Segment Anything

15:50-17:50

Zhigang Ren

Jian Chen

Xing Mao

Ni Ren

Model

15:50-17:50

Northwestern Polytechnical Univ.

Northwestern Polytechnical Univ.

Northwestern Polytechnical Univ.

Ministry of Agriculture and Rural

Ministry of Agriculture and Rural

China Agricultural Univ.

China Agricultural Univ.

SunB11.126

Affairs

Affairs

SunB11.127

Equipment System	
Changcheng Wang	AVIC Shenyang Aircraft Design
	and Research Institute
Xianmin Zhao	AVIC Shenyang Aircraft Design
	and Research Institute
Shaoqing Zhang	AVIC Shenyang Aircraft Design
	and Research Institute
15:50-17:50	SunB11.132
1641 Pipeline Robot Collaborati	ive Control System Based on
TD3 Algorithm and Fuzzy-PID	
Jingmei Jian	Beihang Univ.
Hua Song	Beihang Univ.
15:50-17:50	SunB11.133
1642 Bathymetric SLAM Approa	ach Using Multibeam Sonar
Toward Polar Region	
Zhaonan Jiao	Beijing Institute of Technology
Xinshuo Chen	Beijing Institute of Technology
Shengwu Zhao	Beijing Institute of Technology
Zhihong Deng	Beijing Institute of Technology
15:50-17:50	SunB11.134
1643 ORCO-SLAM: Object Rec	ognition for Neural SLAM in
dynamic scenes	
Xinrui Chen	Harbin Institute of Technology
Ping Ma	Harbin Institute of Technology
Junxi Tian	Harbin Institute of Technology
Tao Chao	Harbin Institute of Technology
15:50-17:50	SunB11.135
1644 Construction of echo signa	al model of multi-beam
sounding sonar with polar chara	octeristics
Zhongxue Fan	Chinese Academy of Sciences
Shuwen Wang	Chinese Academy of Sciences
Xiaodong Liu	Chinese Academy of Sciences
Jinliang Cao	Chinese Academy of Sciences
Hui Xu	Chinese Academy of Sciences
ChengeWang	Chinese Academy of Sciences
15:50-17:50	SunB11.136
1645 Research on the Control S	Strategy of Six-Degree-of
-Freedom Manipulator Based or	Linear Interpolation Programming
Jineng Ouyang	Naval University. of Engineering
Zijian Liu C	Chinese People's Liberation Army
	Unit 92001
Hua Ouyang	Naval University. of Engineering
Zhouxing Shen	Naval University. of Engineering
15:50-17:50	SunB11.137
1648 Trajectory Planning Metho	d of Fixed-Wing
Drones for Multi-Phase Cruise N	Aissions
Guanjun Wang	Sun Yat-sen University
Hongbo Chen	Sun Yat-sen University
Zhenwei Ma	Sun Yat-sen University
15:50-17:50	SunB11.138
1654 On aero engine componer	nt level identification modeling
method based on Hammerstein	system

Guoren Zong	Civil Aviation Univ. of China
Kun Yang	Civil Aviation Univ. of China

15:50-17:50	SunB11.139
1655 Game-based forr	nation control with collision
avoidance for on-orbit	assembly
Yuan Chai	Beijing Institue of Control Engineering
Renjian Hao	Beijing Institue of Control Engineering
15:50-17:50	SunB11.140
1656 Design and Cont	rol of the Flame-Retardant Drone
Launch Robot	
Weiyi Zheng	Beihang Univ.
Zhenyun Shi	Beihang Univ.
Chenyue Bu	Beihang Univ.
15:50-17:50	
1657 Using Glyph Lexi	con Enhancing BERT
Character Representat	ion for Chinese Named
Entity Recognition	
Renze Liu	Huazhong Univ. of Science and
Hongtao Zhou	Huazhong Univ of Science and
	Technology
Housbeng Su	Huazbong Univ. of Science and
housineng ou	
15.50 17.50	SupB11 142
15.30-17.30	Suid II. 142
with Automatic Instruct	ian Response Conchility
liboo Zhong	Noning University of Assensution and
Jinao Zhang	Nanjing University of Aeronautics and
Vilue Ohan	Astronautics
Yikun Chen	Nanjing University of Aeronautics and
Ohana Ohan	Astronautics
Cheng Chen	AVIC Aviation Simulation System
	Co.,Ltd.
Songyi Ding	AVIC Aviation Simulation System
L	Co.,Ltd.
Luping Znang	AVIC Aviation Simulation System
45 50 47 50	Co.,Ltd.
15:50-17:50	SunB11.143
1659 Longitudinal Tran	sition Analysis and Control of a
Tilt-Body VTOL Aircraft	
Jinhao Lou	Beihang Univ.
Longtei ∠hao	Beihang Univ.
KeLi	Beihang Univ.
Xiancheng Zhong	State Grid Qinghai Electric Power
	Co.,Ltd.
Yaoxing Shang	Beihang Univ.
Zongxia Jiao	Beihang Univ.
15:50-17:50	SunB11.144
1663 A Robust Solution	ו to Narrow-band Vibration Noise and
Magnetic Distortion of	DC Motor for Low Cost UAV
ChenZhenduo Xu	Harbin Institute of Technology
Junxi Tian	Harbin Institute of Technology
Xu Wen	Harbin Institute of Technology
Tao Chao	Harbin Institute of Technology
15:50-17:50	SunB11.145

Collaborative task allocation of multiple AGVs based on improved discrete pigeon-inspired optimization

Zhaobo Li	Beihang Univ.	
Shuanglei Sun	Beijing Specialized Machinery	
	Institute	
15:50-17:50	SunB11.146	
1665 The Method for Selection	ng Adaptation Zones of Terrain	
Matching Based on Arctic Se	abed Terrain Features	
Qingzhe Wang	CSSC marine technology company	
Xun Gong	CSSC marine technology company	
Xiaoyong Bai	CSSC marine technology company	
Zhihong Deng	Beijing Institute of Technology	
Shengwu Zhao	Beijing Institute of Technology	
15:50-17:50	SunB11.147	
1667 Exploration and Validat	tion of the Integrated	
Trajectory Optimization Meth	od for Intelligent Missiles	
Songyu Liu	Northwestern Polytechnical Univ.	
Hua Su	Northwestern Polytechnical Univ.	
Licong Zhang	Northwestern Polytechnical Univ.	
Junmin Zhao	Xi'an Modern Control Technology	
	Research Institute	
Chunlin Gong	Northwestern Polytechnical Univ.	
15:50-17:50	SunB11.148	
1668 Direction of Arrival Mea	asurement using UWB	
Antenna Array		
Huanting Ye	South China Univ. of Technology	
Hailong Pei	South China Univ. of Technology	
15:50-17:50	SunB11.149	
1669 Adaptive Parameter Up	odating Method for	
Electromechanical		
Actuators Driving motors Ba	ased on Back	
Electromotive Force Estimati	ion	
Cun Shi	Beihang Univ.	
Shutong Zhao	Beihang Univ.	
Xiying Chen	Beijing Institute of Precision	
	Electromechanical Control	
Shaoping Wang	Beihang Univ.	
Di Liu	Beihang Univ.	
15:50-17:50	SunB11.150	
1670 Safety Assessment for Flight Control System		
Architecture with Abstract Lo	gical Modelling	
Ruichen He	Beihang Univ.	
François Pouzolz	Airbus Defense and Space	
Florian Holzapfel	Technical University of Munich	
Shuguang Zhang	Beihang Univ.	
15:50-17:50	SunB11.151	
1672 The Design and Analysis of a High-Temperature,		
Low-Speed,High-Touge Motor		

Wengjing Cui	QinganGroup Co.,Ltd.
Bo Wang	QinganGroup Co.,Ltd.
Feng Liu	QinganGroup Co.,Ltd.
15:50-17:50	SunB11.152

Research on indoor rescue navigation and positioning system based on combined point and line feature

binocular visual SLAM	
Peng Zhuo	Nanjing Univ. of Aeronautics and
	Astronautics
Qinghua Zeng	Nanjing Univ. of Aeronautics and
	Astronautics
Ziqi Jin	Nanjing Univ. of Aeronautics and
	Astronautics
Yineng Li	Nanjing Univ. of Aeronautics and
	Astronautics
Bowen Li	Nanjing Univ. of Aeronautics and
	Astronautics
Hanyi Wang	Nanjing Univ. of Aeronautics and
	Astronautics
15:50-17:50	SunB11.153
1683 Research On Fligh	t Guidance Technique For Sector
Search Based On Auxiliary	Waypoint
Tianyu Huang	AVIC Xi'An Flight Automatic Control
	Research Institute
Guorong Shi	Naval Equipment Department
Guoda Cheng	AVIC Xi'An Flight Automatic Control
	Research Institute
Xu Liang	AVIC Xi'An Flight Automatic Control
	Research Institute
15:50-17:50	SunB11.154
1692 Improved SLAM Algo	rithm Based on Point-Line Fusion
for Low-Texture Scenes	
Chang Zhang	Beihang Univ.
Jing Yang	Beihang Univ.
15:50-17:50	SunB11.155
1693 Multidisciplinary Desig	gn Optimization T-KMGA a Two-Stage
Approach for Collaborat	ive Task Allocation with Air-Sea
Heterogeneous Autonomou	is Unmanned Systems
Xinyu Chen	Shanghai Univ.
Juntong Qi	Shanghai Univ.
Yan Peng	Shanghai Univ.
Yuan Ping	EFY Intelligent Control (Hainan)
	Technology Co., Ltd.
Chong Wu	EFY Intelligent Control (Hainan)
	Technology Co., Ltd.
Mingming Wang	Tianjin Univ.
15:50-17:50	SunB11.156
1697 Prediction of Advance	ed Fighter's Spin Characteristics
Based on Enhanced Bifurc	ation Analysis
Yuhao Wang	Nanchang Hangkong Univ.
Lianghui Tu	Nanchang Hangkong Univ.
Jiaqi Shen	Nanchang Hangkong Univ.
Jian Fu	Nanchang Hangkong Univ.
15:50-17:50	SunB11.157
0516 Path planning of UAV	's based on Multi-strategy improved
dung beetle optimization al	gorithm
Yong Liang	Naval Aviation Univ.
Shi Yan	Naval Aviation Univ.
Bing Wan	Naval Aviation Univ.
Hu Gezhi	Naval Aviation Univ.

15:50-17:50	SunB11.158
1330 The relative positio	ning algorithm for aerial refueling based
on contour matching	
Hongwei Wei	Chinese Flight Test
	Establishment
Yunxia Li	Chengdu Aircraft Design and
	Research Institute, AVIC
15:50-17:50	SunB11.159
1702 Research on the m	nulti-aircraft cooperative autonomous
maneuver decision meth	od for confrontation with a powerful
enemy	
Fu Zhu	Northwestern Polytechnic Univ.
Jiayin Hou	Northwestern Polytechnic Univ.
Chong Sun	Northwestern Polytechnic Univ.
Zhanxia Zhu	Northwestern Polytechnic Univ.
Dali Ding	Air Force Engineering Univ
Wenva Wan	Xi'an Univ. of Technology
15:50-17:50	SunR11 160
1703 A Fine-Grained Ma	nagement and Scheduling System for
Artificial Intelligence Cor	nnufing Resources
Chao Wang	Insputing Accounted
Yi Chen	Insput Group Co., Ltd.
Ai Ullell	loit Systems Co., Ltd.
	leit Systems Co., Ltd.
15:50-17:50	SunB11.161
1704 Secure Cooperativ	e Guidance with Impact
Angle Coordination and	Obstacle Avoidance
Pengfei Shi	Beihang Univ.
Piaoyi Su	Beihang Univ.
Zhexin Shi	Beihang Univ.
Jianglong Yu	Beihang Univ.
Xiwang Dong	Beihang Univ.
Zhang Ren	Beihang Univ.
Qingke Tan	China Academy of Launch
	Vehicle Technology
Rui Lv	China Academy of Launch
	Vehicle Technology
Zhuo Liang	China Academy of Launch
	Vehicle Technology
15:50-17:50	SunB11.162
1709 A Non-contact Attit	ude and Position Measurement
System Developed for W	/ind Tunnel Free Flight Test
Litao Fan	China Aerodynamics Research
	and Development Center
Nie Bowen	China Aerodynamics Research
	and Development Center
Tianhao Guo	China Aerodynamics Research
	and Development Center
Zhonghua Liu	China Aerodynamics Research
	and Dovelopment Center
Vu Ho	
	China Aerodynamics Research
45 50 47 50	and Development Center
15:50-17:50	SunB11.163

Complicated Sea State	
Liu Tianyi	Dalian Naval Academy
Liu Yang	Dalian Naval Academy
Chen Wenjin	Dalian Naval Academy
Huang Qian	Dalian Naval Academy
15:50-17:50	SunB11.164
1715 Development trend	s and Key Tecnologies of Next
Genaretion Flight Manag	ement System
Leibin Yang	AVIC Xi'an Flight Automatic
	Control Research Institute
Mingdong Qi	AVIC Xi'an Flight Automatic
	Control Research Institute
Ze Zhang	AVIC Xi'an Flight Automatic
	Control Research Institute
15:50-17:50	SunB11.165
1718 A Raft Consensus	s Algorithm Modiffcation for Adapting
Frequent Leader Swite	ch in Multi-Agent Swarm Robotics
Applications	
Yingao Zhang	The Information Science
	Academy of China Electronics
	Technology Group Corporation
Gen Cui	The Information Science
	Academy of China Electronics
	Technology Group Corporation
Weishun Sui	The Information Science
	Academy of China Electronics
	Technology Group Corporation
15:50-17:50	SunB11.166
1719 PSO-based Syste	m Identification on Cement Vertical
Mill System Using Real	-world Data
Yanxin Xu	Nanjing Univ. of Aeronautic
	and Astronautic
Yang Xu	Nanjing Univ. of Aeronautic
Ohana Min	and Astronautic
Cheng Min	Nanjing Univ. of Aeronautic
11 7	and Astronautic
Jing Zhu	Nanjing Univ. of Aeronautic
45 50 47 50	
15:50-17:50	SunB11.167
1726 UAV Decision-maki	ing in Air Combat Based on SD3
Algorithm and Trajectory	
Wenxiao Jin	Nanjing Univ. of Aeronautics
T 7	and Astronautics
Iongle Zhou	Nanjing Univ. of Aeronautics
May Chan	And Astronautics
Mou Chen	Nanjing Univ. of Aeronautics
Haojie Zhu	And Astronautics
	Nanjing Oniv. of Aeronautics
45 50 47 50	
15:50-17:50	SunB11.168
1728 Comparison of Keri	nel Functions in Generalized
Mestimation	
using Fixed-Point Iterati	on
Shoupeng Li	Nankai Univ.

1714 Research on tracking and recognition of dim target in

Shihui Xu	Nankai Univ.
Xiaoqin Jin	Nankai Univ.
Panlong Tan	Nankai Univ.
15:50-17:50	SunB11.169
1729 Fault-tolerant Control for	or 8-wheel Distributed
Electric Drive Vehicle	
Jie Jiao	Beijing Specialized Machinery
	Institute
Lin Yan	Shandong Univ. of Science and
	Technology
Jinghang Wang	Beijing Specialized Machinery
	Institute
Sanjun Duan	Beijing Specialized Machinery
	Institute
Jinsong Zhao	Beijing Univ. of Aeronautics and
	Astronautics
15:50-17:50	SunB11.170
1731 Multiple UAVs Collabor	rative Dense Map
Construction and Map Fusion	n
Chenqi Gao	Northwestern Polytechnical Univ.
Yifei Lei	Northwestern Polytechnical Univ.
Jinwen Hu	Northwestern Polytechnical Univ.
Zhao Xu	Northwestern Polytechnical Univ.
Junwei Han	Northwestern Polytechnical Univ.
Yanyu Su	Northwestern Polytechnical Univ.
Kexin Pang	Northwestern Polytechnical Univ.
15:50-17:50	SunB11.171
1735 Review of Gesture Rec	ognition based on Somatosensory
Interaction	
Hengjing Liu	Univ. of Jinan
Jin Cheng	Univ. of Jinan
Guoxing Chang	Univ. of Jinan
15:50-17:50	SunB11.172
1736 Spacecraft attitude det	ermination based on combination
of FLAE algorithm and UKF	
Yizhuo Zhu	Henan Univ. of Technology
Hui-Juan Zhang	Beijing Institute of Technology
Miaoxin Ji	Henan University of Technology
Hanguang Mi	Beijing Aerospace Automatic
	Control Institute
Yuan-Jin Yu	Beijing Institute of Technology
15:50-17:50	SunB11.173
1739 Control Barrier Function	n based Model Predictive
Control to Safety Obstacle-A	voidance of Autonomous
Manned Mobile Robots	

Qingji Gao

Civil Aviation Univ. of China

Junhu Feng	Civil Aviation Univ. of China	
Gaowei Zhang	Civil Aviation Univ. of China	
Wenbo Cao	Civil Aviation Univ. of China	
15:50-17:50	SunB11.174	
1751 Modeling and Analysis of Short-Wing Quadplane UAVs		
Hao Sha	Beihang Univ.	
Xinquan Chen	Beihang Univ.	
Quan Quan	Beihang Univ.	
15:50-17:50	SunB11.175	
1753 Composite Anti-Disturk	pance Particle Filtering via an IMM-	
type Disturbance Predictor"	-	
Qijun Li	92942 Army	
Wenshuo Li	Beihang Univ.	
Jianwei Xu	China State Shipbuilding	
	Corporation Limited	
Wengong	China State Shipbuilding	
Meng	Corporation Limited	
15:50-17:50	SunB11.176	
1756 大数据、人工智能与系	统健康管理"本科生通识课程教学创	
新实践探索		
Yujie Cheng	Beihang Univ.	
Chen Lu	Beihang Univ.	
Jian Ma	Beihang Univ.	
Laifa Tao	Beihang Univ.	
Hongmei Liu	Beihang Univ.	
Yu Ding	Beihang Univ.	
Mingliang Suo	Beihang Univ.	
15:50-17:50	SunB11.177	
1543 Distributed bearing-	constrained formation control of	
unmanned aerial vehicle swa	arms via orientation estimation	
Xiangyu Tang	Beihang Univ.	
Ruining Liang	Beihang Univ.	
Jianglong Yu	Beihang Univ.	
Xiangyu Yang	Science and Technology on	
	Complex System Control and	
	Intelligent Agent Cooperation	
	Laboratory	
Xiwang Dong	Beihang Univ.	
Zhang Ren	Beihang Univ.	
15:50-17:50	SunB11.178	
1612 Research on Polar Nat	vigation Problem of North-Seeking	
Strapdown Inertial Navigatio	n Svstem	
Xinshuo Chen	Beihang Univ.	
Zhaonan Jiao	Beihang Univ.	
Shengwu Zhao	Beihang Univ.	
Zhihong Deng	Beihang Univ	



2024 International Conference on Guidance, Navigation and Control

August 9-11, 2024 Changsha, China





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