

2026 国际制导、导航与控制学术会议

2026 International Conference on Guidance, Navigation and Control

2026 年 8 月 7-9 日 中国·桂林

August 7-9, 2026 Guilin, China

ICGNC 2026 程 序 册

Final Program



<http://icgnc.buaa.edu.cn>



2026-07-10 版

ICGNC 2026

2026 国际制导、导航与控制学术会议

2026 International Conference on Guidance, Navigation and Control

2026 年 8 月 7-9 日 中国·桂林

August 7-9, 2026 Guilin, China

程 序 册

Final Program

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

技术协办单位

虚拟现实技术与系统全国重点实验室
中国自动化学会导航制导与控制专业委员会
中国自动化学会无人飞行器自主控制专业委员会
中国自动化学会控制理论专业委员会
中国自动化学会机器人智能专业委员会
中国自动化学会教育工作委员会
《制导、导航与控制（英文）》编辑部

承办单位

桂林航天工业学院

Sponsors

Technical Committee on Guidance, Navigation and Control (TCGNC), CSAA
National Key Laboratory of Aircraft Integrated Flight Control

Technical Sponsors

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
GUIDANCE, NAVIGATION AND CONTROL Editorial Office

Organizer

Guilin University of Aerospace Technology

目录 (CONTENTS)

欢迎辞 (Welcome Address)	2
往届会议 (Past and Present)	4
会议机构 (Conference Organizations)	8
会议组织 (Conference Committees)	10
大会介绍(Conference Introduction).....	20
I 会场信息.....	27
II 交通信息.....	29
III 住宿信息.....	30
IV 其他信息.....	30
V 联系信息.....	32
VI 会议安排总览.....	33
口头与张贴报告要求.....	34
会议一览表 (Program Schedule).....	35
大会报告 I (Plenary Speech I).....	38
大会报告 II (Plenary Speech II).....	39
大会报告 III (Plenary Speech III).....	40
大会报告 IV (Plenary Speech IV).....	41
大会报告 V (Plenary Speech V).....	42
大会报告 VI (Plenary Speech VI).....	43
GNC 总师论坛 (GNC Chief Designer Forum).....	44
GNC 国家级教学名师论坛 (GNC National-level Model Teacher Forum).....	49
GNC 青年科学家论坛 (GNC Young Scientist Forum).....	55
Technical Program.....	66

欢迎辞

Welcome Address

We are pleased to welcome you to the 2026 International Conference on Guidance, Navigation and Control (ICGNC 2026), which takes place at Shangri-La Guili, China. ICGNC 2026 is scheduled on August 7-9, 2026. ICGNC 2026 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 2026 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 2026 is organized by Guilin University of Aerospace 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 2026 marks the twelfth edition of the GNC series. We are proud to announce that this congress has received 1583 papers submissions from 10 countries and areas such as Canada, Chile, Germany, Japan, Russia, Singapore, United Kingdom, United States of America, Hong Kong, Mocaos. This is the highest number since the launching of ICGNC. After a rigorous peer-review process, 1136 English papers, 157 Chinese Papers and 22 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 seven academician plenary speeches given by Professor Tianyou Chai from Northeastern University, Professor Dengyun Yu from China Aerospace Science and Technology Corporation, Professor Lei Guo from Beihang University, Professor Dewen Hu from National University of Defense Technology, and Professor Marios M. Polycarpou from University of Cyprus (Cyprus).

This year, we invited four panelists for Chief Designer Forum, who are Chuanjian Liu from Civil Aviation Flight University of China, Yongtao Peng from AVIC Xi'an Flight Automatic Control Research Institute, Xiaoming Zhao from Tianjin Navigation Instrument Research Institute, and Yang Fu from AVIC Chengdu Aircraft Design and Research Institute. The conference program also features a GNC National-level Model Teacher Forum on innovation and practice of GNC education with four famous national-level model teachers: Professor Yu Yao from Harbin Engineering University, Professor Junfei Qiao from Beijing University of Technology, Professor Shaoyuan Li from Shanghai JiaoTong University, and Professor Meiling Wang from Beijing Institute of Technology. We

also invited ten young famous scholars in GNC field for Young Scientist Forum, who are Professor Peng Cheng from Zhejiang University, Professor Haichao Gui from Beihang University, Professor Huaping Liu from Tsinghua University, Professor Yajie Ma from Nanjing University of Aeronautics and Astronautics, Professor Lei Ren from Beihang University, Professor Guanghui Wen from Southeast University, Professor Jiande Wu from Yunnan University, Professor Dongrui Wu from Huazhong University of Science and Technology, Professor Bin Xin from Beijing Institute of Technology, and Professor Yanlong Zhao from Academy of Mathematics and Systems Science, CAS.

ICGNC 2026 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 2026 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 2026 a memorable event.

“Guilin’s water and mountains captivate the world”. Let us cherish our gathering in the famous city - Guilin for this exciting event in this hot summer. We hope that your stay in Guilin 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 Guilin.



A handwritten signature in black ink, reading "Jianbin Dong".



A handwritten signature in black ink, reading "Jingfeng Han".

ICGNC2026 General Chairs

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 5-7 日，中国 成都
第十四届	2030 国际制导、导航与控制学术会议 2030 年 8 月，中国 昆明
第十五届	2032 国际制导、导航与控制学术会议 2032 年 8 月，待定

INTERNATIONAL CONFERENCE ON GUIDANCE, NAVIGATION AND CONTROL (ICGNC) PAST, PRESENT AND NEXT

First	CGNCC 2007 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

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 5-7, 2028, Chengdu, China

Fourteenth ICGNC 2030
2030 International Conference on Guidance, Navigation and Control
August, 2030, Kunming, China

Fifteenth ICGNC 2032
2032 International Conference on Guidance, Navigation and Control
August, 2032, TBD

ICGNC Official Website: <http://icgnc.buaa.edu.cn>

会议机构

主办单位



中国航空学会(CSAA)制导、导航与控制分会
(TCGNC)



飞行器一体化控制全国重点实验室

技术协办单位



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(TCGNC)



中国自动化学会(CAA)无人飞行器自主控制专业
委员会(TCUASAC)



中国自动化学会(CAA)控制理论专业委员会
(TCCT)



中国自动化学会(CAA)机器人智能专业委员会
(TCRI)



中国自动化学会(CAA)教育工作委员会 (EC)



《制导、导航与控制（英文）》编辑部

承办单位



桂林航天工业学院

Organizations

Sponsors



Technical Committee on Guidance, Navigation and Control (TCGNC), Chinese Society of Aeronautics and Astronautics (CSAA)



National Key Laboratory of Aircraft Integrated Flight Control

Technical Co-Sponsors



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), Chinese Association of Automation (CAA)



Technical Committee on Control Theory (TCCT), Chinese Association of Automation (CAA)



Technical Committee on Robotics Intelligence (TCRI), Chinese Association of Automation (CAA)



Education Committee (EC), Chinese Association of Automation (CAA)



GUIDANCE, NAVIGATION AND CONTROL Editorial Office

Organizer



Guilin University of Aerospace Technology

会议组织

顾问委员会

包为民	中国航天科技集团公司
柴天佑	东北大学
陈 杰	哈尔滨工业大学
陈 暘	中国航空学会
陈小前	军事科学院
陈一坚	第一飞机设计研究院
陈志杰	空军研究院
陈宗基	北京航空航天大学
段广仁	哈尔滨工业大学
樊邦奎	中国工程院
樊会涛	中国空空导弹研究院
房建成	北京航空航天大学
封锡盛	中国科学院沈阳自动化所
冯培德	北京航空航天大学
付梦印	南京理工大学
管晓宏	西安交通大学
桂卫华	中南大学
郭 雷	中国科学院数学与系统科学研究院
何 友	清华大学/海军航空大学
胡德文	国防科技大学
黄 琳	北京大学
姜 杰	中国运载火箭技术研究院
雷宏杰	中国航空工业集团有限公司
黎 湘	国防科技大学
李 明	沈阳飞机设计研究所
李伯虎	航天科工集团公司二院
李树涛	长安大学
刘永坚	空军研究院
陆 军	中国电子科学研究院
乔 红	中国科学院自动化研究所
宋永端	重庆大学
苏东林	北京航空航天大学
孙 聪	中国航空研究院
唐长红	第一飞机设计研究院
王 巍	中国航天科技集团公司
王沙飞	军事科学院

王耀南	湖南大学
王英勋	北京航空航天大学
王永庆	沈阳飞机设计研究所
王自力	北京航空航天大学
吴宏鑫	中国空间技术研究院
向锦武	北京航空航天大学
徐德民	西北工业大学
杨德森	哈尔滨工程大学
杨凤田	沈阳飞机设计研究所
杨国庆	中国民用航空总局
杨孟飞	中国空间技术研究院
于登云	中国航天科技集团
张 军	北京理工大学
张汝麟	中航工业西安飞行自动控制研究所
张新国	中国航空研究院/清华大学
赵淳生	南京航空航天大学
赵沁平	虚拟现实技术与系统全国重点实验室
郑志明	北京航空航天大学

大会总主席

段海滨

韩峻峰

大会副主席

范彦铭 郭 雷(北航) 姜 斌 焦宗夏 吕金虎 孙山林 杨卫平

程序委员会

主席

姜 斌

彭永涛

任 章

严 亮

区域主席

Ben M. Chen	The Chinese University of Hong Kong, Hong Kong, China
Wen-Hua Chen	The Hong Kong Polytechnic University, Hong Kong, China
Marco Dorigo	Universite' Libre de Bruxelles, Belgium
Gang(Gary) Feng	City University of Hong Kong, Hong Kong, China
Tanner G. Herbert,	University of Delaware, USA
Qing-Long Han	Swinburne University of Technology, Australia
Zhongping Jiang	New York University, USA
Axel Lehmann	Germany University of Bundeswehr, Germany
Hugh Hong-Tao Liu	University of Toronto, Canada
Ping Lu	Iowa State University, USA
Robert C. Michelson	Georgia Tech Research Institute, USA
Sung-Kwun Oh	The University of Suwon, South Korea
Wei Ren	University of California, Riverside, USA
Yang Shi	University of Victoria, Canada
Gang Tao	University of Virginia, USA
Antonios Tsourdos	Cranfield University, UK
Xiaohua Xia	University of Pretoria, South Africa
Youmin Zhang	Concordia University, Canada
Fumin Zhang	The Hong Kong University of Science and Technology, Hong Kong, China
Marios M.Polycarpou	University of Cyprus, Cyprus
Ong Yew Soon	Nanyang Technological University, Singapore

委员

艾剑良	安 刚	白俊强
白 阳	边少锋	蔡开泉
蔡云泽	蔡志浩	操晓春
曹风魁	曹 粟	曾念寅
曾志刚	柴 利	常路宾
晁 涛	车 军	陈阿莲
陈霸东	陈 斌	陈彩莲
陈复扬	陈积明	陈 建
陈 琳	陈 谋	陈小龙
陈 震	陈 征	陈 挚
程 龙	程 鹏	程玉杰
程子欢	丛一睿	崔 磊
崔志华	戴 宁	戴 沛
邓 方	邓亦敏	邓志红
丁进良	丁全心	董 斌

董海荣
董琦
董永武
段海滨
段志生
方浩
冯志光
高飞
高磊
高晓珊
葛泉波
关新平
郭克信
韩飞
韩亮
郝伟
何绍溟
贺风华
黑文静
侯增广
胡劲文
胡延国
黄程智
黄益新
霍梦真
贾英民
姜斌
敬忠良
柯良军
兰旭光
雷旭升
李国飞
李坚强
李陇南
李荣
李铁山
李学龙
李永明
李忠奎
梁子璇
刘刚
刘华平
刘凯

董宏丽
董伟
杜文博
段纳
樊尚春
方洁
符方舟
高关根
高庆
高亚奎
公茂果
郭迪
海星朔
韩红桂
韩萍
何斌
何潇
贺诗波
洪奕光
胡波
胡军
胡云龙
黄科科
黄玉龙
纪越
江飞鸿
解永春
康宇
赖际舟
雷宏杰
李爱军
李恒年
李肯立
李霓
李世华
李文博
李阳
李宇萌
梁潇
林德福
刘昊
刘金国
刘连庆

董景新
董希旺
杜彦斌
段续庭
范彦铭
方勇纯
富立
高会军
高庆吉
高岳
巩磊
郭建川
韩邦成
韩军伟
郝慧
何鹏
何玉庆
贺威
侯建
胡昌华
胡庆雷
华冰
黄攀峰
黄长强
季海波
江驹
靳聪
康宇航
兰维瑶
雷秀娟
李彬
李鸿一
李亮
李清
李涛
李轩
李贻斌
李震
梁晓龙
刘迪
刘浩
刘近贞
刘妹琴

刘 敏
刘兴华
刘 杨
刘 振
柳 春
陆宏湜
罗 均
吕 琛
吕 品
吕跃祖
马杰华
马 钊
梅中磊
孟子阳
那 靖
牛国臣
潘献飞
彭 艳
蒲志强
祁振强
秦家虎
屈耀红
任 元
阮婉莹
申 冲
沈 凯
施 航
史 恒
史振威
宋科璞
宋征宇
苏子康
孙建坤
孙 宁
孙长银
田栢苓
铁钰嘉
王 斑
王大轶
王贺升
王 婕
王 亮
王茂松

刘瑞军
刘艳军
刘 哲
刘志杰
龙 江
路坤锋
罗艳红
吕金虎
吕仁健
马 波
马 倩
毛 军
孟 斌
牟 瑞
聂飞平
牛轶峰
裴海龙
彭永涛
齐俊桐
乔建忠
秦 亮
全 伟
任 章
尚耀星
申燕凯
沈林成
石鹏飞
史静平
司小胜
宋 锐
苏 波
孙昌浩
孙 健
孙山林
唐 漾
田大新
万天才
王春彦
王东辉
王宏伦
王军义
王 凌
王美玲

刘森琪
刘燕斌
刘贞报
刘准钊
鲁仁全
罗德林
骆 盛
吕茂隆
吕永玺
马洪忠
马亚杰
冒泽慧
孟德元
穆朝絮
宁晓琳
潘 泉
彭 聪
蒲华燕
齐瑞云
乔俊飞
邱建龙
任 磊
茹 乐
邵书义
沈海东
沈 强
石 岩
史彦斌
宋 佳
宋士吉
苏厚胜
孙富春
孙津济
孙张俊
陶呈纲
田玉平
汪进文
王 聪
王尔申
王佳楠
王 磊
王 龙
王蒙一

王明明
王少萍
王向民
王兴坚
王英勋
王勇军
王 卓
魏瑞轩
文 力
吴 浩
吴利荣
吴文启
武炎明
鲜 斌
谢立荣
熊 华
徐 静
徐小斌
徐以涛
许 根
薛建儒
阎振鑫
杨 光
杨 君
杨 明
杨秀霞
姚 郁
易建强
余 翔
虞文武
袁夏明
臧希恒
张承慧
张 凡
张 辉
张 锴
张 涛
张文安
张育玮
章惠君
赵 彪
赵恩娇
赵良玉

王 蕊
王思远
王小旭
王养柱
王 永
王 震
韦星星
温广辉
文利燕
吴淮宁
吴 敏
吴云华
武元新
肖 瑾
谢少荣
熊 慧
徐胜元
徐 昕
许 斌
许文盈
薛文超
阳春华
杨国梁
杨 俊
杨秦敏
杨延年
叶思隼
于登秀
余远金
喻俊志
袁 洋
占正勇
张岱峰
张福彪
张佳玲
张 柯
张婷婷
张秀云
张兆亮
章 健
赵 勃
赵 江
赵千川

王 锐
王文娟
王晓卫
王 寅
王永骥
王志刚
魏金钟
温志津
吴爱国
吴立刚
吴树范
吴争光
夏元清
谢广明
辛 斌
徐 德
徐天添
徐 扬
许 超
许宇航
严 亮
杨朝旭
杨 浩
杨 良
杨卫平
杨赞杰
衣 鹏
余 策
余自权
袁莞迈
岳程斐
张 超
张 帆
张 航
张 健
张克志
张 伟
张勇刚
张志冰
章卫国
赵创新
赵京洲
赵新刚

赵旭东
赵巍飞
甄子洋
郑泽伟
钟麦英
周大鹏
周 锐
周 宇
朱纪洪
朱雪耀
邹 尧

赵延龙
赵云波
郑建华
郑 征
钟宜生
周其兵
周绍磊
周 忠
朱家强
祝小平
左志强

赵彦杰
赵振宇
郑世强
支国柱
周 彬
周庆瑞
周新秀
朱 波
朱 亮
宗 群
左宗玉

组织委员会

主席

孙张俊

王少萍

张烈平

委员

邓亦敏
郭克信
刘 政
龙诗科
孙 颖
王建琦
魏 晨
杨 光
袁 梦
张兆宇

冯 宝
霍佳波
刘德元
马 钊
唐仁林
王淑兰
吴 江
杨春山
张绍荣
朱玉凯

高晓珊
刘 迪
刘晓超
牟 瑞
王 广
王维嘉
严 亮
于江龙
张育玮

评奖委员会主席

范彦铭

姜 斌

杨国梁

Youmin Zhang

编辑和出版主席

段海滨

孙山林

邓亦敏

高晓珊

余 翔

袁 梦

宣传主席

陈 谋 黄攀峰 乔建忠 王大轶 杨朝旭

展览主席

刘 迪 于江龙 袁 洋 张育玮 邹爱成

张贴主席

霍梦真 龙诗科 王 卓 许宇航 赵 江

注册主席

刘晓超 吴 江 朱玉凯

财务主席

孙 颖 魏 晨

当地主席

刘德元 唐仁林 王勇军

Committee

Advisory Committee

Weimin Bao	China Aerospace Science and Technology Corporation
Tianyou Chai	Northeastern University
Jie Chen	Harbin Institute of Technology
Yang Chen	Chinese Society of Aeronautics and Astronautics
Xiaoqian Chen	Academy of Military Science
Yijian Chen	The First Aircraft Institute
Zhijie Chen	Air Force Research Academy
Zongji Chen	Beihang University
Guangren Duan	Harbin Institute of Technology
Bangkui Fan	Chinese Academy of Engineering
Huitao Fan	China Airborne Missile Academy
Jiancheng Fang	Beihang University
Xisheng Feng	Shenyang Institute of Automation, Chinese Academy of Sciences
Peide Feng	Beihang University
Mengyin Fu	Nanjing University of Science and Technology
Xiaohong Guan	Xi'an Jiaotong University
Weihua Gui	Central South University
Lei Guo	Chinese Academy of Sciences
You He	Tsinghua University / Naval Aeronautical University
Dewen Hu	National University of Defense Technology
Lin Huang	Peking University
Jie Jiang	China Academy of Launch Vehicle Technology
Hongjie Lei	Aviation Industry Corporation of China, Ltd.
Xiang Li	National University of Defense Technology
Ming Li	Shenyang Aircraft Design and Research Institute
Bohu Li	The Second Research Institute, CASIC
Shutao Li	Chang'an University
Yongjian Liu	Air Force Research Academy
Jun Lu	China Academy of Electronics and Information Technology
Hong Qiao	Institute of Automation, Chinese Academy of Sciences
Yongduan Song	Chongqing University
Donglin Su	Beihang University
Cong Sun	Chinese Aeronautical Establishment
Changhong Tang	The First Aircraft Institute
Wei Wang	China Aerospace Science and Technology Corporation
Shafei Wang	Academy of Military Science
Yaonan Wang	Hunan University
Yingxun Wang	Beihang University
Yongqing Wang	Shenyang Aircraft Design and Research Institute

Zili Wang	Beihang University
Hongxin Wu	China Academy of Space Technology
Jinwu Xiang	Beihang University
Demin Xu	Northwestern Polytechnical University
Desen Yang	Harbin Engineering University
Fengtian Yang	Shenyang Aircraft Design and Research Institute
Guoqing Yang	General Administration of Civil Aviation of China
Mengfei Yang	China Academy of Space Technology
Dengyun Yu	China Aerospace Science and Technology Corporation
Jun Zhang	Beijing Institute of Technology
Rulin Zhang	AVIC Xi'an Flight Automatic Control Research Institute
Xinguo Zhang	Chinese Aeronautical Establishment / Tsinghua University
Chunsheng Zhao	Nanjing University of Aeronautics and Astronautics
Qinping Zhao	State Key Laboratory of Virtual Reality Technology and Systems
Zhiming Zheng	Beihang University

General Chairs

Haibin Duan Junfeng Han

General Co-Chairs

Yanming Fan	Lei Guo (BUAA)	Bin Jiang	Zongxia Jiao
Jinhu Lü	Shanlin Sun	Weiping Yang	

Program Committee

Chairs

Bin Jiang	Yongtao Peng	Zhang Ren	Liang Yan
-----------	--------------	-----------	-----------

Regional Chairs

Ben M. Chen	The Chinese University of Hong Kong, Hong Kong, China
Wen-Hua Chen	The Hong Kong Polytechnic University, Hong Kong, China
Marco Dorigo	Universite' Libre de Bruxelles, Belgium
Gang(Gary) Feng	City University of Hong Kong, Hong Kong, China
Tanner G. Herbert,	University of Delaware, USA
Qing-Long Han	Swinburne University of Technology, Australia
Zhongping Jiang	New York University, USA

Axel Lehmann	Germany University of Bundeswehr, Germany
Hugh Hong-Tao Liu	University of Toronto, Canada
Ping Lu	Iowa State University, USA
Robert C. Michelson	Georgia Tech Research Institute, USA
Sung-Kwun Oh	The University of Suwon, South Korea
Wei Ren	University of California, Riverside, USA
Yang Shi	University of Victoria, Canada
Gang Tao	University of Virginia, USA
Antonios Tsourdos	Cranfield University, UK
Xiaohua Xia	University of Pretoria, South Africa
Youmin Zhang	Concordia University, Canada
Fumin Zhang	The Hong Kong University of Science and Technology, Hong Kong, China
Marios M.Polycarpou	University of Cyprus, Cyprus
Ong Yew Soon	Nanyang Technological University, Singapore

Members

Jianliang Ai	Gang An	Junqiang Bai
Yang Bai	Shaofeng Bian	Kaiquan Cai
Yunze Cai	Zhihao Cai	Xiaochun Cao
Fengkui Cao	Su Cao	Nianyin Zeng
Zhigang Zeng	Li Chai	Lubin Chang
Tao Chao	Jun Che	Alian Chen
Badong Chen	Bin Chen	Cailian Chen
Fuyang Chen	Jiming Chen	Jian Chen
Lin Chen	Mou Chen	Xiaolong Chen
Zhen Chen	Zheng Chen	Zhi Chen
Long Cheng	Peng Cheng	Yujie Cheng
Zihuan Cheng	Yirui Cong	Lei Cui
Zhihua Cui	Ning Dai	Pei Dai
Fang Deng	Yimin Deng	Zhihong Deng
Jinliang Ding	Quanxin Ding	Bin Dong
Hairong Dong	Hongli Dong	Jingxin Dong
Qi Dong	Wei Dong	Xiwang Dong
Yongwu Dong	Wenbo Du	Yanbin Du
Haibin Duan	Na Duan	Xuting Duan
Zhisheng Duan	Shangchun Fan	Yanming Fan
Hao Fang	Jie Fang	Yongchun Fang
Zhiguang Feng	Fangzhou Fu	Li Fu
Fei Gao	Guangen Gao	Huijun Gao
Lei Gao	Qing Gao	Qingji Gao
Xiaoshan Gao	Yakui Gao	Yue Gao

Quanbo Ge	Maoguo Gong	Lei Gong
Xinping Guan	Di Guo	Jianchuan Guo
Kexin Guo	Xingshuo Hai	Bangcheng Han
Fei Han	Honggui Han	Junwei Han
Liang Han	Ping Han	Hui Hao
Wei Hao	Bin He	Peng He
Shaoming He	Xiao He	Yuqing He
Fenghua He	Shibo He	Wei He
Wenjing He	Yiguang Hong	Jian Hou
Zengguang Hou	Bo Hu	Changhua Hu
Jinwen Hu	Jun Hu	Qinglei Hu
Yanguo Hu	Yunlong Hu	Bing Hua
Chengzhi Huang	Keke Huang	Panfeng Huang
Yixin Huang	Yulong Huang	Zhangqiang Huang
Mengzhen Huo	Yue Ji	Haibo Ji
Yingmin Jia	Feihong Jiang	Ju Jiang
Bin Jiang	Yongchun Xie	Cong Jin
Zhongliang Jing	Yu Kang	Yuhang Kang
Liangjun Ke	Jizhou Lai	Weiyao Lan
Xuguang Lan	Hongjie Lei	Xiujuan Lei
Xusheng Lei	Aijun Li	Bin Li
Guofei Li	Hengnian Li	Hongyi Li
Jianqiang Li	Kenli Li	Liang Li
Longnan Li	Ni Li	Qing Li
Rong Li	Shihua Li	Tao Li
Tieshan Li	Wenbo Li	Xuan Li
Xuelong Li	Yang Li	Yibin Li
Yongming Li	Yumeng Li	Zhen Li
Zhongkui Li	Xiao Liang	Xiaolong Liang
Zixuan Liang	Defu Lin	Di Liu
Gang Liu	Hao Liu	Hao Liu
Huaping Liu	Jinguo Liu	Jinzhen Liu
Kai Liu	Lianqing Liu	Meiqin Liu
Min Liu	Ruijun Liu	Senqi Liu
Xinghua Liu	Yanjun Liu	Yanbin Liu
Yang Liu	Zhe Liu	Zhenbao Liu
Zhen Liu	Zhijie Liu	Zhunga Liu
Chun Liu	Jiang Long	Renquan Lu
Hongshi Lu	Kunfeng Lu	Delin Luo
Jun Luo	Yanhong Luo	Sheng Luo
Chen Lv	Jinhu Lv	Maolong Lv
Pin Lv	Renjian Lv	Yongxi Lv
Yuezv Lv	Bo Ma	Hongzhong Ma

Jiehua Ma	Qian Ma	Yajie Ma
Zhao Ma	Jun Mao	Zehui Mao
Zhonglei Mei	Bin Meng	Deyuan Meng
Ziyang Meng	Rui Mou	Chaoxu Mu
Jing Na	Feiping Nie	Xiaolin Ning
Guochen Niu	Yifeng Niu	Quan Pan
Xianfei Pan	Hailong Pei	Cong Peng
Yan Peng	Yongtao Peng	Huayan Pu
Zhiqiang Pu	Juntong Qi	Ruiyun Qi
Zhenqiang Qi	Jianzhong Qiao	Junfei Qiao
Jiahu Qin	Liang Qin	Jianlong Qiu
Yaohong Qu	Wei Quan	Lei Ren
Yuan Ren	Zhang Ren	Le Ru
Wanying Ruan	Yaoxing Shang	Shuyi Shao
Chong Shen	Yankai Shen	Haidong Shen
Kai Shen	Lincheng Shen	Qiang Shen
Hang Shi	Pengfei Shi	Yan Shi
Heng Shi	Jingping Shi	Yanbin Shi
Zhenwei Shi	Xiaosheng Si	Jia Song
Kepu Song	Rui Song	Shiji Song
Zhengyu Song	Bo Su	Housheng Su
Zikang Su	Changhao Sun	Fuchun Sun
Jiankun Sun	Jian Sun	Jinji Sun
Ning Sun	Shanlin Sun	Zhangjun Sun
Zhangyin Sun	Yang Tang	Chenggang Tao
Bailing Tian	Daxin Tian	Yuping Tian
Yujia Tie	Tiancai Wan	Jinwen Wang
Ban Wang	Chunyan Wang	Cong Wang
Dayi Wang	Donghui Wang	Ershen Wang
Hesheng Wang	Honglun Wang	Jianan Wang
Jie Wang	Junyi Wang	Lei Wang
Liang Wang	Ling Wang	Long Wang
Maosong Wang	Meiling Wang	Mengyi Wang
Mingming Wang	Rui Wang	Rui Wang
Shaoping Wang	Siyuan Wang	Wenjuan Wang
Xiangmin Wang	Xiaoxu Wang	Xiaowei Wang
Xingjian Wang	Yangzhu Wang	Yin Wang
Yingxun Wang	Yong Wang	Yongji Wang
Yongjun Wang	Zhen Wang	Zhigang Wang
Zhuo Wang	Xingxing Wei	Jinzhong Wei
Ruixuan Wei	Guanghui Wen	Zhijin Wen
Li Wen	Liyan Wen	Aiguo Wu
Hao Wu	Huaining Wu	Ligang Wu

Lirong Wu	Min Wu	Shufan Wu
Wenqi Wu	Yunhua Wu	Zhengguang Wu
Yanming Wu	Yuanxin Wu	Yuanqing Xia
Bin Xian	Jin Xiao	Guangming Xie
Lirong Xie	Shaorong Xie	Bin Xin
Hua Xiong	Hui Xiong	De Xu
Jing Xu	Shengyuan Xu	Tiantian Xu
Xiaobin Xu	Xin Xu	Yang Xu
Yitao Xu	Bin Xu	Chao Xu
Gen Xu	Wenying Xu	Yuhang Xu
Jianru Xue	Wenchao Xue	Liang Yan
Zhenxin Yan	Chunhua Yang	Chaoxu Yang
Guang Yang	Guoliang Yang	Hao Yang
Jun Yang	Jun Yang	Liang Yang
Ming Yang	Qinmin Yang	Weiping Yang
Xiuxia Yang	Yannian Yang	Yunjie Yang
Yu Yao	Sijuan Ye	Peng Yi
Jianqiang Yi	Dengxiu Yu	Ce Yu
Xiang Yu	Yuanjin Yu	Ziquan Yu
Wenwu Yu	Junzhi Yu	Guanmai Yuan
Xiaming Yuan	Yang Yuan	Chengfei Yue
Xiheng Zang	Zhengyong Zhan	Chao Zhang
Chenghui Zhang	Daifeng Zhang	Fan Zhang
Fan Zhang	Fubiao Zhang	Hang Zhang
Hui Zhang	Jialing Zhang	Jian Zhang
Kai Zhang	Ke Zhang	Kezhi Zhang
Tao Zhang	Tingting Zhang	Wei Zhang
Wenan Zhang	Xiuyun Zhang	Yonggang Zhang
Yuwei Zhang	Zhaoliang Zhang	Zhibing Zhang
Huijun Zhang	Jian Zhang	Weiguo Zhang
Biao Zhao	Bo Zhao	Chuangxin Zhao
Enjiao Zhao	Jiang Zhao	Jingzhou Zhao
Liangyu Zhao	Qianchuan Zhao	Xingang Zhao
Xudong Zhao	Yanlong Zhao	Yanjie Zhao
Yifei Zhao	Yunbo Zhao	Zhenyu Zhao
Ziyang Zhen	Jianhua Zheng	Shiqiang Zheng
Zewei Zheng	Zheng Zheng	Guozhu Zhi
Maiying Zhong	Yisheng Zhong	Bin Zhou
Dapeng Zhou	Qibing Zhou	Qingrui Zhou
Rui Zhou	Shaolei Zhou	Xinxu Zhou
Yu Zhou	Zhong Zhou	Bo Zhu
Jihong Zhu	Jiaqiang Zhu	Liang Zhu
Xueyao Zhu	Xiaoping Zhu	Qun Zong

Yao Zou

Zhiqiang Zuo

Zongyu Zuo

Organization Committee

Chairs

Zhangjun Sun

Shaoping Wang

Lieping Zhang

Members

Yimin Deng

Bao Feng

Xiaoshan Gao

Kexin Guo

Jiabo Huo

Di Liu

Zheng Liu

Deyuan Liu

Xiaochao Liu

Shike Long

Zhao Ma

Rui Mou

Ying Sun

Renlin Tang

Guang Wang

Jianqi Wang

Shulan Wang

Weijia Wang

Chen Wei

Jiang Wu

Liang Yan

Guang Yang

Chunshan Yang

Jianglong Yu

Meng Yuan

Shaorong Zhang

Yuwei Zhang

Zhaoyu Zhang

Yukai Zhu

Award Committee Chairs

Yanming Fan

Bin Jiang

Guoliang Yang

Youmin Zhang

Editorial and Publicity Chairs

Haibin Duan

Shanlin Sun

Yimin Deng

Xiaoshan Gao

Xiang Yu

Meng Yuan

Publication Chairs

Mou Chen

Panfeng Huang

Jianzhong Qiao

Dayi Wang

Zhaoxu Yang

Exhibit Chairs

Di Liu

Jianglong Yu

Yang Yuan

Yuwei Zhang

Aicheng Zou

Poster Session Chairs

Mengzhen Huo

Shike Long

Zhuo Wang

Yuhang Xu

Jiang Zhao

Regisreation Chairs

Xiaochao Liu

Jiang Wu

Yukai Zhu

Finance Chairs

Ying Sun

Chen Wei

Local Chairs

Deyuan Liu

Renlin Tang

Yongjun Wang

ICGNC 2026 Conference Introduction

大会介绍

The 2026 International Conference on Guidance, Navigation and Control (ICGNC 2026) will be held in Guilin on August 7-9, 2026, following the successes of previous eleven 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 2026 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), CAA, Education Committee(EC), CAA, and *Guidance Navigation and Control* Editorial Office. ICGNC 2026 is organized by Guilin University of Aerospace 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.

继前十一届国际制导、导航与控制学术会议成功举办后，2026 国际制导、导航与控制学术会议（ICGNC 2026）将于 2026 年 8 月 7-9 日在桂林举行。国际制导、导航与控制学术会议（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 2026 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）、教育工作委员会（EC）和《制导、导航与控制（英文）》编辑部共同协办，由桂林航天工业学院承办。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 2026 will take place at Shangri-La Guilin located in the east bank area of the Li River in Qixing District, Guilin. Nestled on the picturesque banks of the Li River, it sits east of Yushan Park and north of North Huancheng Second Road, around a 40-minute drive from Guilin Liangjiang International Airport.

桂林香格里拉酒店位于桂林市七星区漓江东岸片区，坐落于风景如画的漓江之滨，虞山公园东侧、环城北二路北侧，距桂林两江国际机场约 40 分钟路程。



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



图 2 Venue Location Schematic Map 会场位置示意图

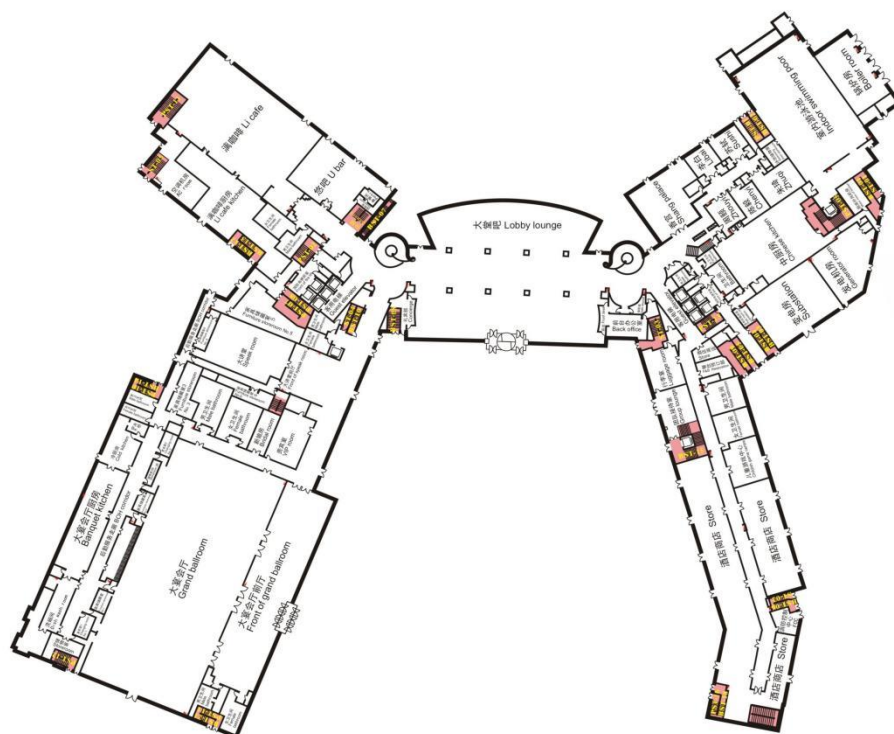


图 3 The 1st Floor Map of Shangri-La Guilin
桂林香格里拉酒店 1 层平面图

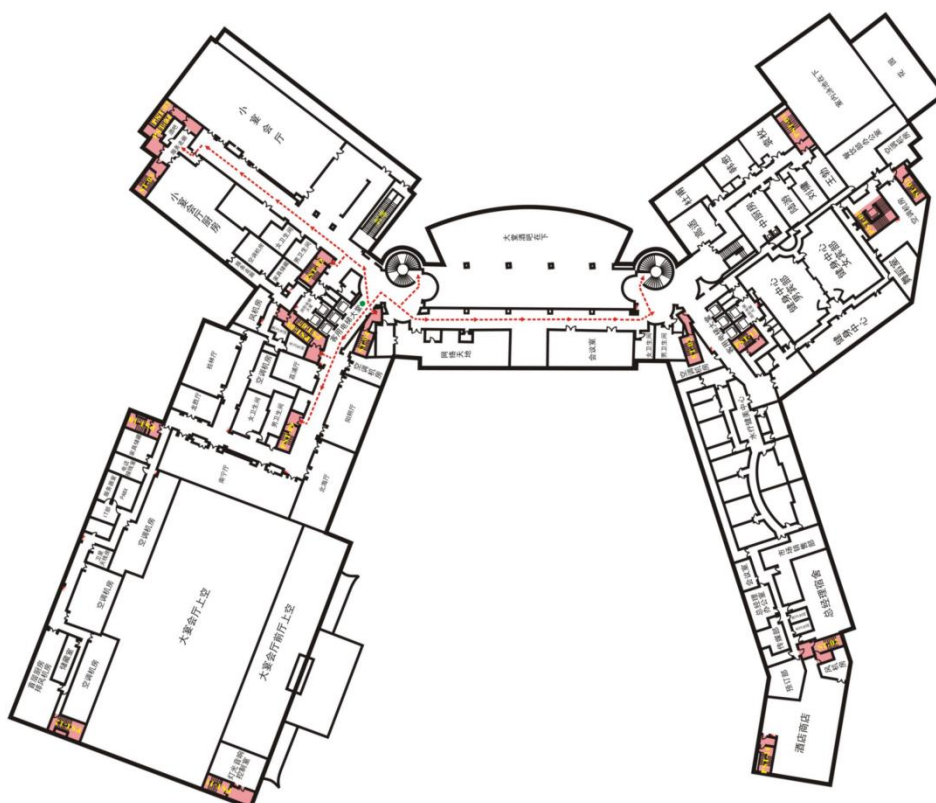


图 4 The 2nd Floor Map of Shangri-La Guilin
桂林香格里拉酒店 2 层平面图

II. 交通信息

A、桂林两江国际机场：

- (1) 出租车：28 公里，约 45 分钟到达。
- (2) 机场 T2 航站楼 1 楼到达厅乘坐机场大巴 1 号线至七星公园，出站步行至七星公园公交站台，搭乘 32 路/30 路至虞山桥站下车，步行 2 分钟到达。

B、桂林火车站：

- (1) 出租车：4.6 公里，约 10-15 分钟到达。
- (2) 出站后搭乘 32/302 路至虞山桥站下车，步行 2 分钟到达，总用时约 40 分钟。

C、桂林火车北站：

- (1) 出租车：3.8 公里，约 10-15 分钟车程。
- (2) 出站后搭乘 32/302 路至虞山桥站下车，步行 2 分钟到达，总用时约 40 分钟。

D、桂林火车西站：

- (1) 出租车：7.8 公里，25-30 分钟车程。
- (2) 出站后搭乘 303 路至桂林北站公交总站下车，同站台换乘 32 路至虞山桥站下车，步行 2 分钟到达，总用时约 70 分钟。

E、高速：紧邻泉南高速、包茂高速、桂林绕城高速、机场高速环绕，距离七星互通口 4 公里。



图 5 Shangri-La Guilin Location
桂林香格里拉酒店地理位置

III. 住宿信息

表 1 大会推荐酒店信息一览表

地点 \ 目的地	主会场	桂林两江国际机场	桂林火车站	桂林火车北站	桂林火车西站
漓江大瀑布酒店	4.5 公里	34.7 公里	4.0 公里	6.2 公里	10.6 公里
碧玉国际酒店	6.6 公里	38.9 公里	7.5 公里	12.8 公里	18.1 公里
桂山大酒店	3.8 公里	36.0 公里	4.0 公里	9.6 公里	14.5 公里
帝凯国际酒店	7.7 公里	38.8 公里	7.8 公里	13.6 公里	18.9 公里
桂林民丰大酒店	2.2 公里	37.1 公里	5.9 公里	5.8 公里	11.1 公里
维也纳理工大学店	1.8 公里	37.4 公里	6.2 公里	5.6 公里	11.0 公里
万紫千红 屋顶花园店	774 米	37.1 公里	5.8 公里	5.8 公里	11.1 公里
桂林南越国际酒店	1.8 公里	36.3 公里	6.9 公里	3.3 公里	8.3 公里
曼哈顿两江四湖 北极广场店	914 米	36.3 公里	6.3 公里	4.2 公里	9.2 公里
花园假日酒店 (理工大学店)	2.7 公里	37.6 公里	6.5 公里	5.4 公里	10.9 公里

IV. 其他信息

时区

UTC/GMT +8

天气

桂林是一个气候温和、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.tianqi.com/guilin/>

Climate	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug	Sep.	Oct.	Nov	Dec.
Daily highs(°C)	12	14	18	23	27	30	33	33	30	25	20	15
Daily lows(°C)	5	7	11	16	20	23	25	25	22	16	11	6
Precipitation(mm)	41	60	100	166	244	288	164	113	68	56	59	31

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/wh>

[pj/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

桂林市是国家历史文化名城，建制逾两千二百载，古称始安、桂州、静江，素有“桂林山水甲天下”“桂海名都”“抗战文化城”之誉。拥有甑皮岩史前遗址、兴安灵渠、明靖江王府与王陵、桂海碑林摩崖石刻、恭城文庙等珍贵历史遗迹。凝练出山水相融、包容多元、崇文重教的桂海文化，抗战时期云集全国文人志士，是大后方文化核心阵地，也是红军长征湘江战役的重要红色热土。桂林是国家批复建设的世界级旅游城市、全国性综合交通枢纽、中国-东盟开放合作前沿节点，联通长江、珠江两大水系，是古代海上丝绸之路内陆要道、华南生态文旅核心城市。

桂林市是首批中国优秀旅游城市、国家重点风景旅游城市，获评国家园林城市、国家生态文明建设示范市，拥有喀斯特地貌保护、漓江生态修复、特色中药与文旅文创等特色科研成果，有漓江、两江四湖·象山、独秀峰王城、遇龙河、兴坪古镇、七星景区、荔浦银子岩、红军长征湘江战役纪念园、东西巷等著名文旅景点。欲了解更多信息，请访问：

<https://www.travelchinaguide.com/cityguides/guilin.htm>

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。

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

霍梦真，北京航空航天大学

电话：+86-13020093071

电子邮件：icgnc_gncc@126.com

组织委员会秘书处

王勇军，桂林航天工业学院

电话：+86-15007794136

电子邮箱：icgnc2026@163.com

VI. 会议安排总览

GNC 国家级教学名师论坛

2026 年 8 月 7 日（周五） 09:00-11:40

GNC 青年科学家论坛

2026 年 8 月 7 日（周五） 14:00-17:40

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

2026 年 8 月 7 日（周五） 20:30-22:00

大会开幕式

2026 年 8 月 8 日（周六） 08:30-09:00

大会报告

2026 年 8 月 8 日（周六） 09:00-12:00

2026 年 8 月 8 日（周六） 14:00-15:20

GNC 总师论坛

2026 年 8 月 8 日（周六） 15:45-18:00

中国自动化学会导航制导与控制专业委员会年度工作会议

2026 年 8 月 8 日（周六） 16:00-18:00

分会场论坛口头报告

2026 年 8 月 9 日（周日）

第 1-10 组 A、B、C、D 8:00-12:15 13:30-17:45

优秀论文评选（第 11 组 A） 8:00-12:15

张贴海报

2026 年 8 月 9 日（周日）

第 12 组 A、B、C、D 8:00-12:15 13:30-17:45

优秀 Poster 评选（第 12 组 A） 8:00-10:00

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 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.

2026 国际制导、导航与控制学术会议程序一览表

ICGNC 2026 Technical Program, Thursday, August 6, 2026		
14:00-20:00	1 st Floor, Conference Executive Lounge, Shangri-La Guilin (桂林香格里拉酒店 一层签到厅)	注册/Registration
ICGNC 2026 Technical Program, Friday, August 7, 2026		
08:30-22:00	1 st Floor, Conference Executive Lounge, Shangri-La Guilin (桂林香格里拉酒店 一层签到厅)	注册/Registration
09:00-11:40 Junior Ballroom, 2 nd Floor (桂林香格里拉酒店 2 层 漓江厅)		
(Chairs: Tao Zhang 张涛 Tsinghua University & Shanlin Sun 孙山林 Guilin University of Aerospace Technology)		
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)		
09:00-09:40	Yu Yao 姚郁 Harbin Engineering University	TBD
09:40-10:20	Junfei Qiao 乔俊飞 Beijing University of Technology	Embodied Intelligence: A New Frontier for AI and Automation Education
10:20-11:00	Shaoyuan Li 李少远 Shanghai Jiao Tong University	Reconstruction of the Systematic Curriculum Framework beyond the Fundamental Methods of Cybernetics
11:00-11:40	Meiling Wang 王美玲 Beijing Institute of Technology	TBD
12:00-13:30	1 st Floor&2 nd Floor Shangri-La Guilin (桂林香格里拉酒店)	自助午餐/Lunch
14:00-17:40	Junior Ballroom, 2 nd Floor (桂林香格里拉酒店 2 层 漓江厅)	(Chair: Bin Jiang 姜斌 Nanjing University of Aeronautics and Astronautics)
GNC Young Scientist Forum (GNC 青年科学家论坛): Frontiering Technologies in GNC (GNC 领域前沿技术)		
14:00-14:20	Peng Cheng 程鹏 Zhejiang University	Industrial Internet Security: What Can Control Do?
14:20-14:40	Haichao Gui 桂海潮 Beihang University	TBD
14:40-15:00	Huaping Liu 刘华平 Tsinghua University	A Synergy of Morphology, Action, Perception and Learning for Embodied Intelligence
15:00-15:20	Yajie Ma 马亚杰 Nanjing University of Aeronautics and Astronautics	Task Reallocation Techniques for Flight Formation Systems
15:20-15:40	Lei Ren 任磊 Beihang University	Industrial Foundation Model, Embodied Intelligence Agents and Digital Genealogy: Driving Future Smart Industry
15:40-16:00	茶歇/Tea Break	
16:00-16:20	Guanghui Wen 温广辉 Southeast University	Distributed Consensus and Optimization of Multi-Agent Systems with Switching Communication Topologies
16:20-16:40	Jiande Wu 吴建德 Yunnan University	Recent Advances in Time-Frequency Analysis for Fault Detection and Diagnosis of Complex Industrial Processes
16:40-17:00	Dongrui Wu 伍冬睿 Huazhong University of Science and Technology	Adversarial Security of Brain-Computer Interfaces
17:00-17:20	Bin Xin 辛斌 Beijing Institute of Technology	Air-Ground Coordinated Last-Mile Delivery Optimization: Collaborative Vehicle-Drone Delivery Integrating Social Vehicles
17:20-17:40	Yanlong Zhao 赵延龙 Academy of Mathematics and Systems Science, CAS	Identification and Control of Finite-Information Systems
18:00-20:00	1 st Floor&2 nd Floor Shangri-La Guilin (桂林香格里拉酒店)	自助晚餐/Dinner
20:30-22:00	Junior Ballroom, 2 nd Floor (桂林香格里拉酒店 2 层 漓江厅)	
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)		

2026 国际制导、导航与控制学术会议程序一览表

ICGNC 2026 Technical Program, Saturday, August 8, 2026		
08:30-09:00 Grand Ballroom, 1 st Floor（桂林香格里拉酒店 一层大宴会厅） 大会开幕式/Opening Ceremony Chair: Shanlin Sun 孙山林 GNC 国际期刊优秀论文颁奖/GNC Best Paper Award Ceremony Chairs: Bin Jiang 姜斌		
09:00-12:00 Grand Ballroom,1 st Floor（桂林香格里拉酒店 一层大宴会厅）		
Plenary Speech I（大会报告 I） (Chair: Xiaoqian Chen 陈小前 中国科学院院士)		Intelligent Integrated System for Optimal Decision-making and Control Based on End-edge-cloud Collaboration
09:00-09:40 Tianyou Chai 柴天佑 中国工程院院士 Northeastern University		
Plenary Speech II（大会报告 II） (Chair: Yongqing Wang 王永庆 中国工程院院士)		Lunar Exploration Program of China: Practice and Prospect
09:40-10:20 Dengyun Yu 于登云 中国科学院院士 China Aerospace Science and Technology Corporation		
10:20-10:40 茶歇/Tea Break		
Plenary Speech III（大会报告 III） (Chair: Jinhu Lü 吕金虎)		Intelligent Flying Vehicles: From 'Ren-Gong' Intelligence to 'Niao-Gong' Intelligence
10:40-11:20 Lei Guo 郭雷 中国科学院院士 Beihang University		
Plenary Speech IV（大会报告 IV） (Chair: Dayi Wang 王大轶)		TBD
11:20-12:00 Dewen Hu 胡德文 中国科学院院士 National University of Defense Technology		
12:00-13:30 1 st Floor& 2 nd Floor Shangri-La Guilin (桂林香格里拉酒店) 自助午餐/Lunch		
14:00-15:20 Grand Ballroom, 1 st Floor（桂林香格里拉酒店 一层大宴会厅）		
Plenary Speech V（大会报告 V） (Chair: Shaoping Wang 王少萍)		From Feedback Control to Intelligent Resilience
14:00-14:40 Marios M. Polycarpou Member of Academia Europaea University of Cyprus（Cyprus）		
Plenary Speech VI（大会报告 VI） (Chair: Weiping Yang 杨卫平)		Multi-Domain Warfare Reshapes Air Combat Systems-Prospect on the Development of Next-Generation Flight Control Technologies
14:40-15:20 Dong Zhang 张冬 AVIC Shenyang Aircraft Design and Research Institute		
15:20-15:45 茶歇/Tea Break		
15:45-18:00 Junior Ballroom, 2 nd Floor (桂林香格里拉酒店 2 层 漓江厅) (Chair: Yingxun Wang 王英勋 Beihang University)		
GNC Chief Designer Forum (GNC 总师论坛): Human System Integration		
15:45-16:00 Chuanjian Liu 刘传健 Civil Aviation Flight University of China		Research on Key Technologies for Autonomous Take-off and Landing of Large Aircraft
16:00-16:15 Yongtao Peng 彭永涛 AVIC Xi'an Flight Automatic Control Research Institute		TBD
16:15-16:30 Xiaoming Zhao 赵小明 Tianjin Navigation Instruments Research Institute		Intelligent Practices and Prospects for Shiphandling System
16:30-16:45 Yang Fu 付泐 AVIC Chengdu Aircraft Design and Research Institute		Research and Reflection on Human-System Integration in Autonomous UAV Flight
16:45-18:00 Interactive Discussion 互动交流		
16:00-18:00 中国自动化学会导航制导与控制专业委员会年度工作会议（桂林香格里拉酒店 2 层北海厅）		
19:00-21:30 Grand Ballroom, 1 st Floor（桂林香格里拉酒店 一层大宴会厅）晚宴/Banquet		

2026 国际制导、导航与控制学术会议程序一览表

ICGNC 2026 Technical Program, Sunday, August 9, 2026

08:00-10:00	1 st Floor VIP Room 1 层 贵宾厅	2 nd Floor Yangshuo Room 2 层 阳朔厅	2 nd Floor Lipu Room 2 层 荔浦厅	2 nd Floor Nanning Room1 2 层 南宁厅 1	2 nd Floor Nanning Room2 2 层 南宁厅 2	2 nd Floor Aisel 2 层连廊厅	2 nd Floor Beihai Room 2 层 北海厅
	A1 Dynamic GNC	A2 Learning GNC	A3 Precision GNC	A4 Advanced GNC	A5 Planning GNC	A12 Poster Session 1	08:00-12:15 A11 Best Paper (Oral)
	2 nd Floor Nanning Room3 2 层 南宁厅 3	2 nd Floor Longsheng Room 2 层 龙胜厅	2 nd Floor Guilin Room 1 2 层 桂林厅 1	2 nd Floor Guilin Room 2 2 层 桂林厅 2	2 nd Floor VIP Room 2 2 层 贵宾厅 2		
	A6 Autonomous GNC	A7 Formation GNC	A8 Intelligent GNC	A9 Recognition GNC	A10 Aircraft GNC		
10:00-10:15 茶歇/Tea Break							
10:15-12:15	1 st Floor VIP Room 1 层 贵宾厅	2 nd Floor Yangshuo Room 2 层 阳朔厅	2 nd Floor Lipu Room 2 层 荔浦厅	2 nd Floor Nanning Room1 2 层 南宁厅 1	2 nd Floor Nanning Room2 2 层 南宁厅 2	2 nd Floor Aisel 2 层连廊厅	
	B1 Robust GNC	B2 Reinforcement GNC	B3 Vision GNC	B4 Safety GNC	B5 Flight GNC	B12 Poster Session 2	
	2 nd Floor Nanning Room3 2 层 南宁厅 3	2 nd Floor Longsheng Room 2 层 龙胜厅	2 nd Floor Guilin Room 1 2 层 桂林厅 1	2 nd Floor Guilin Room 2 2 层 桂林厅 2	2 nd Floor VIP Room 2 2 层 贵宾厅 2		
	B6 Optimization GNC	B7 Reliable GNC	B8 Aerospace GNC	B9 Automatic GNC	B10 Hybrid GNC		
12:15-13:30 1 st Floor&2 nd Floor Shangri-La Guilin (桂林香格里拉酒店) 自助午餐/Lunch							
13:30-15:30	1 st Floor VIP Room 1 层 贵宾厅	2 nd Floor Yangshuo Room 2 层 阳朔厅	2 nd Floor Lipu Room 2 层 荔浦厅	2 nd Floor Nanning Room1 2 层 南宁厅 1	2 nd Floor Nanning Room2 2 层 南宁厅 2	2 nd Floor Aisel 2 层连廊厅	13:30-15:30 C12 Poster Session 3
	C1 Modeling GNC	C2 Reasoning GNC	C3 Fault-tolerant GNC	C4 Collaborative GNC	C5 Prediction GNC	C12 Poster Session 3	
	2 nd Floor Nanning Room3 2 层 南宁厅 3	2 nd Floor Longsheng Room 2 层 龙胜厅	2 nd Floor Guilin Room 1 2 层 桂林厅 1	2 nd Floor Guilin Room 2 2 层 桂林厅 2	2 nd Floor VIP Room 2 2 层 贵宾厅 2		
	C6 Fusion GNC	C7 Perception GNC	C8 Cross-domain GNC	C9 Positioning GNC	C10 Adaptive GNC		
15:30-15:45 茶歇/Tea Break							
15:45-17:45	1 st Floor VIP Room 1 层 贵宾厅	2 nd Floor Yangshuo Room 2 层 阳朔厅	2 nd Floor Lipu Room 2 层 荔浦厅	2 nd Floor Nanning Room1 2 层 南宁厅 1	2 nd Floor Nanning Room2 2 层 南宁厅 2	2 nd Floor Aisel 2 层连廊厅	15:45-17:45 D12 Poster Session 4
	D1 Swarm GNC	D2 Distributed GNC	D3 Aerospace GNC	D4 Cooperative GNC	D5 Smart GNC	D12 Poster Session 4	
	2 nd Floor Nanning Room3 2 层 南宁厅 3	2 nd Floor Longsheng Room 2 层 龙胜厅	2 nd Floor Guilin Room 1 2 层 桂林厅 1	2 nd Floor Guilin Room 2 2 层 桂林厅 2	2 nd Floor VIP Room 2 2 层 贵宾厅 2		
	D6 Unmanned GNC	D7 Pattern GNC	D8 Classic GNC	D9 Multi-agent GNC	D10 Confrontation GNC		
18:00-20:00 1 st Floor&2 nd Floor Shangri-La Guilin (桂林香格里拉酒店) 自助晚餐/Dinner							

大会报告 (Plenary Speeches)

大会报告 I (Plenary Speech I)

Time: 09:00-09:40, August 8, 2026

Venue: Grand Ballroom, 1st Floor

(桂林香格里拉酒店 一层大宴会厅)

Chair: Xiaoqian Chen 陈小前 中国科学院院士

Intelligent Integrated System for Optimal Decision-making and Control Based on End-edge-cloud Collaboration

Professor Tianyou Chai 柴天佑

Academician of Chinese Academy of Engineering

Northeastern University

Abstract

To address the challenges that online optimization of operational decision-making and control in complex industrial systems cannot be realized, this talk proposes a unified structure and algorithm for integrated operational optimal decision-making and control, by combining control, optimization, and prediction with AI technology. It also proposed a parameter self-learning and self-optimizing algorithm for operational optimal decision-making and control integrating systems, by combining mechanism analysis with deep learning, and digital twin with reinforcement learning. An intelligent integrated system for optimal decision-making and control based on end-edge-cloud collaboration is developed, by combining the proposed method and the end-edge-cloud collaboration technology of Industrial Internet. The system has been successfully applied in the energy intensive equipment—fused magnesium furnace and achieved remarkable results in the reduction of carbon emission.



Tianyou Chai received the Ph.D. degree in control theory and engineering in 1985 from Northeastern University, Shenyang, China, where he became a Professor in 1988. He is the founder and Director of the Center of Automation, which became a National Engineering and Technology Research Center and a State Key Laboratory. He is a member of Chinese Academy of Engineering, IFAC Fellow and IEEE Fellow. He has served as director of Department of Information Science of National Natural Science Foundation of China from 2010 to 2018. His current research interests include modeling, control, optimization and integrated automation and intelligence of complex industrial processes. He has published 396 peer reviewed international journal papers. His paper titled *Hybrid intelligent control for optimal operation of shaft furnace roasting process* was selected as one of three best papers for the Control Engineering Practice Paper Prize for 2011-2013. He has developed control technologies with applications to various industrial processes. For his contributions, he has won 5 prestigious awards of National Natural Science, National Science and Technology Progress and National Technological Innovation, the 2007 Industry Award for Excellence in Transitional Control Research from IEEE Multiple-conference on Systems and Control, and the 2017 Wook Hyun Kwon Education Award from Asian Control Association.

大会报告 II (Plenary Speech II)

Time: 09:40-10:20, August 8, 2026

Venue: Grand Ballroom, 1st Floor

(桂林香格里拉酒店 一层大宴会厅)

Chair: Yongqing Wang 王永庆 中国工程院院士

Lunar Exploration Program of China: Practice and Prospect

Professor Dengyun Yu 于登云

Academician of Chinese Academy of Sciences

China Aerospace Science and Technology Corporation

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.



Dengyun Yu is currently Deputy Director of the Science and Technology Committee of China Aerospace Science and Technology Corporation, Chief Designer of China's Lunar Exploration Program Phase IV, Academician of the Chinese Academy of Sciences, Academician of the International Academy of Astronautics, and Chair of the Satellite Commercialization Applications Committee of the International Astronautical Federation. He has long been engaged in research and application of spaceflight systems engineering, dynamics, and control technologies, making significant contributions to major national aerospace missions such as China's lunar exploration program, manned space program, and high-resolution satellite projects. He has received two National Science and Technology Progress Award special awards, one first prize and one third prize, two provincial and ministerial-level first prizes for scientific and technological progress, and one second prize for defense technology invention. He has authored six books, obtained 27 authorized invention patents, and published over 100 academic papers. In June 2020, he was awarded "World Space Award" the highest honor presented annually by the International Astronautical Federation. In 2023, he received "Qian Xuesen Outstanding Contribution Award" from the China Aerospace Foundation.

大会报告 III (Plenary Speech III)

Time: 10:40-11:20, August 8, 2026

Venue: Grand Ballroom, 1st Floor

(桂林香格里拉酒店 一层大宴会厅)

Chair: Jinhu Lü 吕金虎

Intelligent Flying Vehicles: From 'Ren-Gong' Intelligence to 'Niao-Gong' Intelligence

Professor Lei Guo 郭雷

**Academician of Chinese Academy of Sciences
Beihang University**

Abstract

The technical challenges of intelligent flying vehicles lie in breaking through the limitations of 'predefined tasks, ideal environments, and deterministic modes'. It embodies the ability to survive, adaptive, and evolution under high dynamic, strong adversarial constraints, as well as in environments with multiple disturbance and uncertainty, achieving the systematic goal of being 'intelligent in the brain, clear-sighted in the eyes, dexterous in the hands, and robust in the body' like a bird. This report introduces the theoretical, technical, and applied research progress made by our team in the core technologies of bionic intelligence in aerospace ("Niao-Gong" Intelligence), including bionic navigation, bionic manipulation, and bionic system evolution. It also looks forward to the development prospects of safe, green, and evolutionary bionic intelligence systems in the low-altitude industry.



Lei Guo, Academician of the Chinese Academy of Sciences and Chief Professor at Beihang University. IEEE/IET Fellow, and Vice Chairman of the China Instrumentation and Control Society. He has long been engaged in research on anti-disturbance control theory and applications of bionic intelligent systems, publishing over 520 SCI/EI papers and obtaining more than 180 authorized invention patents. His theoretical achievements have been successfully applied to multiple major aerospace missions in China. As the first completionist, he has received academic awards such as the Second Prize of National Natural Science, Second Prize of National Technological Invention, First Prize of Ministry of Education Natural Science, First Prize of Ministry of Education Technological Invention, First Prize of National Defense Technological Invention, and the National Innovation Excellence Award. Since 2012, he has successively been elected as a representative of the 14th and 15th Beijing Municipal People's Congress and a representative of the 14th National People's Congress.

大会报告 IV (Plenary Speech IV)

Time: 11:20-12:00, August 8, 2026

Venue: Grand Ballroom, 1st Floor

(桂林香格里拉酒店 一层大宴会厅)

Chair: Dayi Wang 王大轶

TBD

Professor Dewen Hu 胡德文

Academician of Chinese Academy of Sciences

National University of Defense Technology

Abstract

TBD



Dewen Hu is an Academician of the Chinese Academy of Sciences, a Professor and Ph.D. Supervisor at the College of Intelligent Science, National University of Defense Technology. He has long been engaged in research on brain cognitive pattern recognition, making systematic and pioneering contributions to the fields of spatiotemporal analysis of brain signals, mechanisms of brain functional connectivity, and brain-computer collaborative control. He is a recipient of the “National Science Fund for Distinguished Young Scholars” and serves as a “Distinguished Professor under the Changjiang Scholars Program” of the Ministry of Education of China. He has also received numerous prestigious honors, including the title of “National Outstanding Scientific and Technological Worker”, the “National Award for Excellence in Innovation”, and the “Wu Wenjun AI Outstanding Contribution Award”.

大会报告 V (Plenary Speech V)

Time: 14:00-14:40, August 8, 2026

Venue: Grand Ballroom, 1st Floor

(桂林香格里拉酒店 一层大宴会厅)

Chair: Shaoping Wang 王少萍

From Feedback Control to Intelligent Resilience

Professor Marios M. Polycarpou

University of Cyprus, Cyprus

Abstract

The development of cyber-physical systems with multiple sensor/actuator components and feedback loops has given rise to advanced automation applications, including energy and power, intelligent transportation, water systems, manufacturing, etc. Traditionally, feedback control has focused on enhancing the tracking and robustness performance of the closed-loop system; however, as cyber-physical systems become more complex and interconnected and more interdependent, there is a need to refocus our attention not only on performance but also on the resilience of cyber-physical systems. In situations of unexpected events and faults, artificial intelligence and machine learning can play a key role in improving the fault tolerance of cyber-physical systems and preventing serious degradation or a catastrophic system failure. The goal of this presentation is to provide insight into the design and analysis of intelligent monitoring methods for cyber-physical systems, which will ultimately lead to more resilient societies.



Marios M. Polycarpou is a Professor of Electrical and Computer Engineering and the Chair of the Board of the KIOS Research and Innovation Center of Excellence at the University of Cyprus. He is also a Founding Member of the Cyprus Academy of Sciences, Letters, and Arts, an Honorary Professor of Imperial College London, and a Member of Academia Europaea (The Academy of Europe). He served as Founding Chair of the Department of Electrical and Computer Engineering and Founding Director of the KIOS Center of Excellence at the University of Cyprus. Prof. Polycarpou is the recipient of the 2023 IEEE Frank Rosenblatt Technical Field Award and the 2016 IEEE Neural Networks Pioneer Award for contributions to the theory and application of neural networks and learning systems in monitoring and control. He is a Fellow of IEEE and IFAC. He served as the President of the IEEE Computational Intelligence Society (2012-2013), as the President of the European Control Association (2017-2019), and as the Editor-in-Chief of the IEEE Transactions on Neural Networks and Learning Systems (2004-2010). Prof. Polycarpou currently serves on the Editorial Boards of the Proceedings of the IEEE and the Annual Reviews in Control. His research work has been funded by several agencies and industry in Europe and the United States, including the prestigious European Research Council (ERC) Advanced Grant, the ERC Synergy Grant and the EU-Widening Teaming program.

大会报告 VI (Plenary Speech VI)

Time: 14:40-15:20, August 8, 2026

Venue: Grand Ballroom, 1st Floor

(桂林香格里拉酒店 一层大宴会厅)

Chair: Weiping Yang 杨卫平

Multi-Domain Warfare Reshapes Air Combat Systems: Prospect on the Development of Next-Generation Flight Control Technologies

Professor Dong Zhang 张冬

AVIC Shenyang Aircraft Design and Research Institute

Abstract

This report focuses on multi-domain warfare and its transformative impact on modern air combat systems. It systematically analyzes the changes and new demands brought by multi-domain combat scenarios to traditional air combat frameworks. On this basis, it further explores the development trends, technical orientations and application prospects of next-generation flight control technologies adapted to such combat environments.



Dong Zhang is the deputy chief designer and researcher in the professional field at AVIC Shenyang Aircraft Design and Research Institute, and chief expert of the AVIC. He is mainly engaged in the design of flight control systems for manned fighter aircraft and unmanned combat aircraft. He served as the chief designer for multiple national key flight control systems, and has won National Defense Technology Invention Award, and National Defense Science and Technology Progress Award for several times.

总师论坛 Chief Designer Forum

Human System Integration 人与系统综合

Time: 15:45-18:00, August 8, 2026

Venue: Junior Ballroom, 2nd Floor
(桂林香格里拉酒店 2 层 漓江厅)

Chair: Yingxun Wang 王英勋

人与系统综合 (Human System Integration, HSI) 是系统工程的核心分支, 把人作为系统不可分割的核心要素, 在全生命周期中把人的能力、局限、需求与系统的硬件、软件、组织深度融合, 实现整体系统性能最优与全生命周期成本最低, 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4位知名总师将分享他们在各领域中有关HSI在典型工程中问题的解决之道。来自一线总师们的倾情讲述和与现场互动, 将向大家揭示HSI工程创新中蕴含的科学道理。

Human System Integration (HSI) is a core branch of system engineering that treats humans as an inseparable and essential element of the system. By deeply integrating human capabilities, limitations, and needs with hardware, software, and organizational aspects throughout the entire lifecycle, HSI aims to achieve optimal system performance and minimize lifecycle costs, offering broad prospects for development. This forum invites four renowned chief engineers from aviation, aerospace, and maritime fields to share their insights on solving typical HSI challenges in real-world engineering projects. Through heartfelt presentations and interactive discussions with the audience, the experts will reveal the scientific principles underlying innovation in HSI engineering.

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.

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

Professor Chuanjian Liu 刘传健
Civil Aviation Flight University of China

Abstract

This report focuses on the core research regarding autonomous take-off and landing of large aircraft. It analyzes the current research status and practical demands of relevant supporting technologies. It also explores technical difficulties and feasible solutions in this field, and discusses the development directions and practical application prospects of these key technologies.



Chuanjian Liu is the Chief Flight Instructor of the Civil Aviation Flight University of China (CAFUC), and a deputy to the 14th National People's Congress. He is an expert in civil aviation flight safety and pilot training. Widely known as the "Hero Captain of China," he successfully commanded the emergency landing of Sichuan Airlines Flight 3U8633 in 2018 under extremely hazardous conditions, ensuring the safe evacuation of all 128 passengers and crew. He has been dedicated to advancing flight safety, emergency response, and pilot education, making significant contributions to the development of China's civil aviation industry. He has received numerous national honors, including the title of Hero Captain of Chinese Civil Aviation, the National May 1 Labor Medal, National Outstanding Communist Party Member, and The Most Beautiful Veteran.

TBD

Professor Yongtao Peng 彭永涛

AVIC Xi'an Flight Automatic Control Research Institute

Abstract

TBD



Yongtao Peng, a doctoral graduate in Navigation, Guidance and Control from the China Academy of Aeronautical Sciences. Currently, he is the Chief Engineer and Deputy Director of the Automation and Control Institute of Aviation Industry. He is mainly engaged in the research and product development of flight control systems. He has participated in the development of multiple key weapons equipment models of the state and several independent control technologies. Over the years, he has led the team to break through a series of key technologies, achieving several domestic firsts in the GNC field, making significant contributions to the cross-generation development of flight control technology. He has successively received the First Prize of National Defense Science and Technology Progress Award once, the Third Prize once, 15 Group Awards, and 3 Merits.

Intelligent Practices and Prospects for Shiphhandling System

Professor Xiaoming Zhao 赵小明

Tianjin Navigation Instruments Research Institute, CSSC

Abstract

This report provides a comprehensive overview of the intelligent development of shiphhandling systems. It begins by reviewing the evolutionary trajectory of these systems—from electrification, through automation and networking, to the current stage of intelligence—while clearly defining the core connotations of intelligent shiphhandling. Subsequently, it highlights key challenges currently impeding the development of intelligent shiphhandling: insufficient perceptual capability under adverse sea conditions, difficulties in multimodal information fusion, significant complexities in decision-making under complex scenarios, and persistent bottlenecks in ship modelling and high-precision control algorithm design under special operating conditions.

The report also details practical achievements to date, including successful real-vessel tests of autonomous collision avoidance, automatic berthing and unberthing, and other functions in scenarios such as open waters and confined waterways. Finally, it offers a forward-looking perspective, outlining future efforts that will focus on deep integration of multisource information, large-model-based decision-making in the navigation domain, and other technologies. The ultimate goal is to develop a highly autonomous, safe, and reliable autonomous shiphhandling system capable of operating across all sea areas, thereby contributing to the construction of a maritime powerhouse.



Xiaoming Zhao, Male, Ph.D., Professor / Doctoral Supervisor. Chief Expert of China State Shipbuilding Corporation Limited (CSSC), recipient of the Special Government Allowance of the State Council. His main research fields include ship navigation and precision instruments. He has long been engaged in research on inertial navigation technology, and the inertial navigation products he developed have been applied in major national projects such as navigation satellites and large vessels. He serves as the Chief Project Manager of National Key Research and Development Programs and has led/participated in multiple major national special projects. He has published four academic monographs and received more than ten provincial and ministerial-level science and technology awards.

Research and Reflection on Human-System Integration in Autonomous UAV Flight

Professor Yang Fu 付泱

AVIC Chengdu Aircraft Design and Research Institute

Abstract

Aiming at the autonomous flight of unmanned aerial vehicles, this report will analyze the task characteristics of the human operation at the ground station and discuss it from the perspective of the integration of humans and systems. Furthermore, new challenges in the integrated aspects of humans and systems which could be foreseen will be considered.



Yang Fu is a researcher from the AVIC Chengdu Aircraft Design and Research Institute, serving as the deputy chief designer for the unmanned aerial vehicles. He has been engaged in the design and research of unmanned aircraft communication, navigation and control for a long time. He has received three provincial and ministerial-level first prizes for scientific and technological achievements.

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: 09:00-11:40, August 7, 2026

Venue: Junior Ballroom, 2nd Floor

(桂林香格里拉酒店 2 层 漓江厅)

Chairs: Tao Zhang 张涛 & Shanlin Sun 孙山林

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4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 four 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 Chairs

Professor Tao Zhang 张涛

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 China Academic Degree and Graduate Education Association, Education 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.

Professor Shanlin Sun 孙山林

Guilin University of Aerospace Technology



Shanlin Sun, PhD, Professor, President of Guilin University of Aerospace Technology, Director of the Key Laboratory of Low-altitude Unmanned Autonomous Systems in Guangxi, Director of the Guangxi Small Unmanned Aircraft Application Engineering Research Center, Head of the Guangxi Aerospace Unmanned Aircraft Technology Application Academician Workstation, Member of the Technical Committee on Navigation, Guidance and Control (TCNGC), Chinese Society of Aeronautics and Astronautics, Executive Director of the Low-altitude Economy Branch of the Chinese Vocational Education Society. He has been engaged in research on key technologies and applications of unmanned aircraft systems for a long time. He has successfully led and participated in 3 National Natural Science Foundation projects, one 973 Project of the Ministry of Science and Technology, 7 major/important scientific and technological projects in Guangxi, and over 10 enterprise technology research projects. He has solved many technical problems for the unmanned aircraft industry. He has published over 80 papers, among which 40 are indexed by SCI. He has obtained 12 invention patents. His research achievements have won the Special Prize of the Geneva International Invention Exhibition, the Second/Third Prize of Guangxi Science and Technology Progress Award, and the First Prize of Beijing Technology Invention Award. The teaching achievements he has led and participated in have respectively won two first prizes and three second prizes of the Higher Education Teaching Awards of Guangxi..

TBD

Professor Yu Yao 姚郁
Harbin Engineering University

Abstract
TBD



Yu Yao is a Professor and Ph.D. Supervisor at the College of Intelligent Science and Engineering, Harbin Engineering University (HEU), and former President & Deputy Party Secretary of HEU. He is a Yangtze River Distinguished Professor, a national-level expert in the "Hundred-Thousand-Ten Thousand Talents Program", and a distinguished young expert with outstanding contributions to national defense science and technology, receiving special government allowance. His research interests include aircraft navigation, guidance and control, hardware-in-the-loop simulation, and high-performance servo systems. He received the National Science and Technology Progress Award (Second Class) and the China Youth Science and Technology Award.

Embodied Intelligence: A New Frontier for AI and Automation Education

Professor Junfei Qiao 乔俊飞

Beijing University of Technology

Abstract

This talk presents a systematic analysis of embodied intelligence, covering its technological evolution, industrial landscape, and implications for higher education. As a paradigm shift from disembodied AI to physical-world interaction, embodied intelligence represents both a new form of AI empowering diverse sectors and an advanced stage of automation. Given the aggressive deployment by global tech giants, the strategic prioritisation of embodied intelligence in China's 15th Five-Year Plan, and the widening talent gap, the establishment of embodied intelligence major has become an urgent necessity. The talk advocates for the development of the embodied intelligence major centred on the closed-loop “perception–decision–action” paradigm, leveraging information disciplines to cultivate talents with composite “AI + physical systems + scenarios” expertise. It proposes a “major + micro-major” structure, project-based learning with real-world challenges, and industry-integrated virtual-physical training platforms. Looking forward, education should shift from knowledge transmission to cognitive shaping, foster open educational communities, and embrace the emerging frontier of human-machine symbiosis.



Junfei Qiao received the Ph.D. degree in control theory and control engineering from Northeastern University, Shenyang, China, in 1998. He is currently a Professor with the School of Information Science and Technology, Beijing University of Technology, Beijing, China, and he is also the President of Beijing University of Technology. As a pioneer in the field of smart environmental protection, he is the Principal Investigator of the Innovative Research Group Project of the National Natural Science Foundation of China. He is a Distinguished Professor of the Changjiang Scholars Program and a recipient of the National Science Fund for Distinguished Young Scholars. He currently serves as a member of the Academic Degree Committee of the State Council, Vice Chairman of the Teaching Steering Committee of the Ministry of Education, a member of the Science and Technology Committee of the Ministry of Education, Director of the Beijing Smart Environmental Protection Laboratory, and Director of the Engineering Research Center of Intelligent Perception and Autonomous Control of the Ministry of Education. His research interests include computational intelligence, intelligent optimization control, and smart environmental protection.

Reconstruction of the Systematic Curriculum Framework beyond the Fundamental Methods of Cybernetics

Professor Shaoyuan Li 李少远
Shanghai Jiao Tong University

Abstract

This report outlines the historical development of cybernetics and artificial intelligence, as well as their interrelationship. In today's era of rapid AI advancement, industrial applications require AI solutions tailored to the unique characteristics of industry. Algorithms and models developed for commercial or general-purpose use are often unsuitable for industrial settings. Effective application of AI in industry relies on automation professionals' deep understanding of industrial systems, along with practical engineering experience and methodologies. Automation experts thus hold a distinct advantage in industrial AI deployment. As future industrial automation increasingly shifts toward AI integration, the focus will be on integrating AI with industrial environments and control tasks. Talent development in this area is crucial and may position automation professionals to dominate specific market segments, leveraging their strengths effectively.



Shaoyuan Li, the Chair Professor at Shanghai Jiao Tong University, former Vice President of Qingdao University of Science and Technology. His main research interests include adaptive predictive control, satisfactory optimization control, and optimization control for production process systems in networked distributed systems. His key achievements have earned him the First Prize of Shanghai Natural Science Award (first author) in 2006, the Second Prize of the First Yang Jiachi Science and Technology Award in 2010, the First Prize of Natural Science from the Chinese Association of Automation (first author) in 2016, the Second Prize of National Natural Science Award (second author) in 2017, the Special Prize of Shanghai Teaching Achievement Award (first author) in 2017, and the First Prize of National Teaching Achievement Award (first author) in 2018. He also received the First Prize of Shanghai Science and Technology Progress Award (first author) in 2022. In 2008, he was awarded the National Outstanding Youth Fund and selected as a national-level teaching master under the “Ten Thousand Talents Program”, leveraging his strengths to contribute significantly.

TBD

Professor Meiling Wang 王美玲
Beijing Institute of Technology

Abstract

TBD.



Meiling Wang is a Professor and Ph.D. Supervisor at the School of Automation, Beijing Institute of Technology (BIT). She currently serves as Director of the Academic Affairs Office & Admissions Office. She is a Yangtze River Distinguished Professor, a national leading talent, and a Beijing Distinguished Teacher, receiving special government allowance. Her research interests include integrated & intelligent navigation, novel sensor technology, and automation device detection. She has received one First Prize and two Second Prizes of National Science and Technology Award, the National Teaching Achievement Second Prize, and the Baosteel Outstanding Teacher Special Award. She serves on the Electrical Engineering Teaching Advisory Board of the Ministry of Education, presides over NSFC major instrument projects, has published over 30 papers, and holds more than 10 patents.

GNC 青年科学家论坛
GNC Young Scientist Forum
GNC 领域前沿技术
Frontiering Technologies in GNC

Time: 14:00-17:40, August 7, 2026
Venue: Junior Ballroom, 2nd Floor
(桂林香格里拉酒店 2 层 漓江厅)
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. He won Second Class Prize of National Natural Science Award of China in 2018.

Industrial Internet Security: What Can Control Do?

Professor Peng Cheng 程鹏

Zhejiang University

Abstract

We will first review the emergence and development of industrial internet, which is revolutionizing the industry and our life. After discussing the industrial internet architecture, we will reveal the inevitable underlying vulnerabilities via analyzing the specific features. We will get back to the fundamental control layer of industrial internet, and explain its importance of converging security and safety via concrete examples. We will demonstrate how various core control devices and protocols are insecure. Moreover, we discuss how to protect industrial internet through the most recent research.



Peng Cheng is currently Dean, and Changjiang Chair Professor for college of control science and engineering, Zhejiang University. His research interests include industrial internet security, cyber-physical systems, and cloud networking. He has been awarded National State Science and Technology Progress Award, Natural Science Award of Ministry of Education, Youth Science Award of the Ministry of Education, CAA Science and Technology Progress Award. His research received TDSC'24 best paper runner-up award. ACSAC'23 distinguished paper award, IEEE INFOCOM'14 best demo award and IEEE ICC'14 best paper award. He was awarded China Youth Science and Technology Award, FYT Foundation Young Teacher, JSPS Invitation Fellowship, IEEE ComSoc Asia Pacific Outstanding Young Researcher Award. He serves/served as Associate Editor of IEEE Transactions on Cloud Computing, IEEE Transactions on Control of Network Systems, Guest Editor of IEEE Transactions on Automatic Control, and vice directors of CAA Committee for Industrial Control System Security, and CAA Committee for Process Control.

TBD

Professor Haichao Gui 桂海潮

Beihang University

Abstract

TBD



Haichao Gui is a Professor and Ph.D. Supervisor at the School of Astronautics, Beihang University (BUAA), Vice Director of the Institute of Embodied Intelligent Robotics, and Director of the Key Laboratory of Ministry of Education for Spacecraft Design Optimization & Dynamic Simulation Technologies. He is a Shenzhou-16 Astronaut and Payload Specialist. His research interests include spacecraft dynamics and control, space robotics, and navigation technology. He has presided over more than 20 national projects and published over 80 papers. His honors include the Hero Astronaut, Third-Class Space Merit Medal, China Youth May Fourth Medal, China Youth Science and Technology Award, and he was selected as one of the National Most Beautiful Science and Technology Workers in 2026.

A Synergy of Morphology, Action, Perception and Learning for Embodied Intelligence

Professor Huaping Liu 刘华平
Tsinghua University

Abstract

Embodied intelligence emphasizes that the intelligence is affected by the tight coupling of brain, body, and environment. It is continuously and dynamically generated through the process of information perception and physical interaction with the environment. During the past years, the research scope of embodied intelligence has also been expanding and has attracted great attention from various communities. At the same time, a huge number of works relevant to embodied intelligence have been proposed, especially in recent years. In this article, we present a comprehensive survey of embodied intelligence from the perspective that it is a synergy of morphology, action, perception, and learning, providing a thorough summary and categorization of existing studies. Specifically, as embodied intelligence is a synergy of all these components rather than themselves alone, we mainly focus on the connections across these four components (morphology, action, perception, and learning) and identify areas where future research can benefit from their intrinsic connections.



Huaping Liu received the Ph.D. degree from Tsinghua University, Beijing, China, in 2004. He is currently a Professor with the Department of Computer Science and Technology, Tsinghua University. His research interests include robot perception and learning. Dr. Liu was a recipient of the National Science Fund for Distinguished Young Scholars. He served as the Area Chair for Robotics Science and Systems for several times. He is a Senior Editor of the International Journal of Robotics Research.

Task Reallocation Techniques for Flight Formation Systems

Professor Yajie Ma 马亚杰

Nanjing University of Aeronautics and Astronautics

Abstract

With the increasing complexity of flight environments and the growing diversity of mission requirements, a single aircraft is no longer sufficient to reliably accomplish high-precision tasks. Inspired by the autonomy and intelligence observed in biological swarms, cooperative operation of multiple aircraft has therefore attracted extensive attention. Flight formation systems are highly interconnected and complex, requiring each vehicle to maintain a high level of reliability and safety. Malicious attacks on individual aircraft or internal faults within the formation can significantly degrade mission performance. Moreover, due to the interconnection among aircraft, a faulty individual may pose a threat to neighboring aircraft or even to the stability of the entire formation, thereby undermining the benefits of cooperative operation. This report focuses on fault-related challenges in flight formation systems and presents recent research progress on game-theoretic task reallocation methods.



Yajie Ma is a Professor and Ph.D. Supervisor, a Young Scholar of the National Major Talent Program, Distinguished Young Scholar of MIIT, Jiangsu Distinguished Young Scholar, and Jiangsu Excellent Young Scholar. He received his Ph.D. degree from Nanjing University of Aeronautics and Astronautics in 2015 and was exceptionally promoted to Professor and Ph.D. Supervisor in 2021. He has long been engaged in research on aircraft fault diagnosis and fault-tolerant control. He has published more than 90 academic papers in leading journals, including AIAA Journal of Guidance, Control, and Dynamics, IEEE Transactions, Science China, Acta Automatica Sinica, and Acta Aeronautica et Astronautica Sinica. He serves as the Deputy Director of the Jiangsu Key Laboratory of "Low-Altitude Intelligent Internet of Things and Autonomous Safety Control" and is an Editorial Board Member for Drones. He also serves as a Youth Editorial Board Member for journals including Systems Engineering and Electronics and the Journal of Astronautics. Additionally, he acts as the Deputy Secretary-General of the Technical Committee on Fault Diagnosis and Safety of Technical Processes. He has presided over projects that received the First Prize of the Natural Science Award of CAA, the First Prize of Science and Technology of the Jiangsu Association of Automation, and the Jiangsu Association of Automation Young Scientist Award. He has also participated in projects awarded the First Prize of the Jiangsu Science and Technology Award, the First Prize of the National Defense Science and Technology Progress Award, and the First Prize of the Teaching Achievement Award of CAA. He has supervised students who have won the Feng Ru Best Paper Award at the International Conference on Guidance, Navigation, and Control on two occasions.

Industrial Foundation Model, Embodied Intelligence Agents and Digital Genealogy: Driving Future Smart Industry

Professor Lei Ren 任磊

Beihang University

Abstract

This report focuses on industrial foundation models, embodied intelligence agents and digital genealogy. It analyzes the core characteristics and practical values of these three key elements respectively. It further explores their integration modes, and discusses how they jointly empower and promote the innovative development of future smart industry.



Lei Ren is a second-level professor, Blue Sky Distinguished professor, and Ph.D. supervisor at Beihang University (BUAA), jointly appointed by the School of Automation and the School of Software. He is the first recipient of the National Science Fund for Distinguished Young Scholars in industrial internet, Chief Scientist of the National Key R&D Program on Industrial Software, and Chairman of the Special Committee of the National Key Laboratory of Complex Product Intelligent Manufacturing System Technology. His research interests include industrial internet and intelligent manufacturing, industrial software and operating systems, industrial AI foundation models, digital twins and industrial metaverse. He has presided over more than 20 national projects such as the NSFC Major Research Program and the National Key R&D Program, published over 100 papers in IEEE Transactions, and received first and second prizes of provincial/ministerial science and technology awards.

Distributed Consensus and Optimization of Multi-Agent Systems with Switching Communication Topologies

Professor Guanghui Wen 温广辉

Southeast University

Abstract

In recent years, the development of perception, communication, and embedded technologies has had a transformative impact on system analysis and control methods. Modern engineering control systems are increasingly characterized by networked structures and intelligent units. Within this context, the concept of multi-agent systems (MASs) has emerged, and the distributed cooperative control and optimization of such systems have gradually become a research frontier in the fields of systems and control. In practice, due to factors such as the limited communication range of agents and interference in communication links, the communication topology of MASs often exhibits dynamic switching characteristics. This talk begins by discussing the key issues of consensus control in MASs under switching communication topologies, outlining the critical techniques for addressing these problems: the common Lyapunov function method and the multiple Lyapunov function method. For MASs with directed switching communication topologies, it presents the construction methods and consensus criteria of multiple Lyapunov functions based on nonsingular M-matrix theory, and further explores low-conservatism multiple Lyapunov function construction methods based on Lyapunov inequalities and optimization techniques. On this basis, the robust optimization problems of MASs with physical dynamics under switching communication topologies are discussed. Finally, the application of the related theoretical results in the formation control of unmanned surface vessels is shared, along with personal insights on related emerging research topics.



Guanghui Wen received his Ph.D. degree in Mechanical Systems and Control from Peking University, Beijing, China, in 2012. He is currently an Endowed Chair Professor and the Vice Dean of the School of Automation at Southeast University, Nanjing, China. His current research interests include coordination control of autonomous intelligent systems, analysis and synthesis of complex networks, cyber-physical systems, resilient control, and distributed reinforcement learning. He has published more than 200 papers, including more than 200 publications in top-tier journals in the fields of systems and control (TAC, Automatica, etc.), as well as CCF-A conferences including AAAI, IJCAI. Prof. Wen was the recipient of the National Science Fund for Distinguished Young Scholars, the China Youth Science and Technology Award, the Australian Research Council Discovery Early Career Researcher Award, and the Asia Pacific Neural Network Society Young Researcher Award. He currently serves as a Technical Editor of the IEEE/ASME Transactions on Mechatronics and an Associate Editor of the IEEE Transactions on Industrial Informatics, the IEEE Transactions on Neural Networks and Learning Systems, the IEEE Transactions on Intelligent Vehicles, the IEEE Transactions on Fuzzy Systems, the IEEE Transactions on Systems, Man and Cybernetics: Systems, the IEEE Open Journal of the Industrial Electronics Society, and the Asian Journal of Control. Prof. Wen has been recognized as a Highly Cited Researcher by Clarivate from 2018 through 2024. He is an IET Fellow.

Recent Advances in Time-Frequency Analysis for Fault Detection and Diagnosis of Complex Industrial Processes

Professor Jiande Wu 吴建德

Yunnan University

Abstract

Complex industrial processes play a vital role in modern industry, where process monitoring and fault diagnosis are essential for ensuring safety, efficiency, and product quality. However, industrial process data are often nonlinear, nonstationary, and strongly coupled, making conventional monitoring methods difficult to apply effectively. Time-frequency analysis provides an effective tool for revealing dynamic process behaviors and extracting fault-related information from complex industrial data. This lecture will present recent advances in time-frequency analysis for industrial process monitoring, including signal decomposition, time-frequency representation, and feature extraction techniques for oscillatory fault detection and diagnosis. Representative applications from phosphate chemical plants in Yunnan Province will be introduced, covering process feature extraction, quality monitoring, plant-wide fault detection, root-cause analysis, and fault diagnosis. These studies demonstrate the potential of time-frequency analysis in supporting intelligent monitoring and operation of complex industrial processes.



Jiande Wu received the B.S. and M.S. degrees in Automation and Mechatronic Engineering from Northwestern Polytechnical University, Xi'an, China, in 2001 and 2004, respectively, and the Ph.D. degree in Automation from Zhejiang University, Hangzhou, China, in 2007. He is currently a Professor at Yunnan University and has been recognized as a National High-Level Leading Talent and a Yunling Scholar. He also serves as the Director of the Engineering Technology Research Center for Intelligent Systems and Advanced Control of the Nonferrous Metals Industry of China. His research interests focus on fault detection and intelligent control of complex industrial processes, as well as industrial big data analysis and modeling. He has presided over more than 20 research projects, including key projects of the National Natural Science Foundation of China (Regional Joint Fund) and major science and technology projects of Yunnan Province. He has published over 70 papers in prestigious journals such as IEEE Transactions and holds more than 40 authorized patents. His research achievements have received several major awards, including the Second Prize of the National Science and Technology Progress Award, the First Prize of the Yunnan Provincial Science and Technology Progress Award, the First Prize of the Yunnan Provincial Natural Science Award, and the First Prize of the Natural Science Award of the Chinese Association of Automation.

Adversarial Security of Brain-Computer Interfaces

Professor Dongrui Wu 伍冬睿

Huazhong University of Science and Technology

Abstract

A brain-computer interface (BCI) enables direct communication between the brain and external devices. It can be used to research, enhance or repair human cognitive and sensory-motor functions. Electroencephalograms (EEGs) are frequently used in BCIs. However, EEG-based BCIs are subject to adversarial attacks, which are small perturbations that may be difficult to be detected by human eyes or computer algorithms, but can dramatically change the EEG decoding output and hence may hurt the user. Adversarial security is very important to the broad real-world applications of BCIs. This talk will introduce the implementation and defense against adversarial attacks to EEG-based BCIs.



Dongrui Wu (IEEE Fellow) received a B.E in Automatic Control from the University of Science and Technology of China, Hefei, China, in 2003, an M.Eng in Electrical and Computer Engineering from the National University of Singapore in 2006, and a PhD in Electrical Engineering from the University of Southern California, Los Angeles, CA, in 2009. He is now Chair Professor and Vice Dean of School of Artificial Intelligence and Automation, Huazhong University of Science and Technology, Wuhan, China. His research interests include brain-computer interface and machine learning. He has more than 200 publications (19000+ Google Scholar citations; h=72), with 7 outstanding paper awards from IEEE. His team won National Champion of the China Brain-Computer Interface Competition in seven successive years (2019-2025). He is the Editor-in-Chief of IEEE Transactions on Fuzzy Systems.

Air-Ground Coordinated Last-Mile Delivery Optimization: Collaborative Vehicle-Drone Delivery Integrating Social Vehicles

Professor Bin Xin 辛斌

Beijing Institute of Technology

Abstract

The low-altitude economy presents new opportunities for urban last-mile instant delivery. However, existing studies typically assume vehicles are company-owned assets subject to centralized dispatch, and fail to incorporate social vehicles as independent decision-making agents into the collaborative delivery framework. This report proposes a vehicle-drone collaborative delivery model that integrates social vehicles, modeling them as market-oriented agents acquired through a quotation-negotiation mechanism. We develop an integrated mathematical model that combines goods grouping, route pre-planning, and quotation/interaction processes, and design an Event-Driven Hybrid Heuristic (EDHH) framework to achieve closed-loop decision-making involving grouping optimization, route estimation, and multi-level quotation negotiation in dynamic environments. Experimental results demonstrate that EDHH significantly outperforms several baseline algorithms in terms of net profit and delivery success rate, exhibiting strong robustness. This work provides a theoretical framework and algorithmic support for transitioning low-altitude logistics from centralized dispatch to market-driven collaboration.



Bin Xin received the B.S. degree in information engineering and the Ph.D. degree in control science and engineering from the Beijing Institute of Technology, Beijing, China, in 2004 and 2012, respectively. He is a Member of the IEEE. He was an Academic Visitor with the Decision and Cognitive Sciences Research Centre, University of Manchester, Manchester, U.K., from 2011 to 2012. He is currently a Professor with the School of Automation, Beijing Institute of Technology. His current research interests include search and optimization, evolutionary computation, unmanned systems, and multiagent systems. Prof. Xin serves as an Associate Editor of the Journal

Unmanned Systems and many other international journals.

Identification and Control of Finite-Information Systems

Professor Yanlong Zhao 赵延龙

Academy of Mathematics and Systems Science, Chinese Academy of Sciences

Abstract

The theory of identification and control of finite-information systems represents a deepening and extension of traditional control theory, and serves as a crucial theoretical foundation for breakthroughs in key technologies such as 6G communications and multi-scale high-precision sensing. Driven by major national strategic demands including future 6G communications and multi-scale infrared sensing, system design faces a fundamental contradiction: practical constraints such as hardware energy consumption and channel bandwidth result in available data that are low-precision, distributed, and subject to multiple uncertainties, while application scenarios simultaneously require high accuracy, high reliability, and low energy consumption. Traditional control and information theories struggle to effectively reconcile the inherent conflict between “information finiteness” and “performance optimality.” Consequently, the development of finite-information identification and control theory is of critical scientific and engineering significance. This report presents the author’s latest advances in the theory of identification and control of finite-information systems from three perspectives: (i) quantized identification under multiple uncertainties, (ii) quantized identification and consensus control in distributed networked environments, and (iii) applications in communication and sensing systems.



Yanlong Zhao is currently a full Professor of Academy of Mathematics and Systems Science (AMSS), Chinese Academy of Sciences (CAS), and a Vice Director of State Key Laboratory of Mathematical Sciences. He received the B.S. degree in mathematics from Shandong University, Jinan, China, in 2002, and the Ph.D. degree in systems theory from the AMSS, CAS, Beijing, China, in 2007. His research interests include the identification and control of quantized systems, information theory and modelling of financial systems. Yanlong Zhao was awarded the Second Prize of the State Natural Science Award of China in 2015. He has been a Deputy Editor-in-Chief of Journal of Systems Science and Complexity, an Associate Editor for Automatica, SIAM Journal on Control and Optimization, and IEEE Transactions on Systems, Man and Cybernetics: Systems. He served as a Vice-President of Asian Control Association and a Vice-President of IEEE CSS Beijing Chapter, and is now a Vice-President and Fellow of the Chinese Association of Automation (CAA) and the Chair of Technical Committee on Control Theory, CAA.

Content List of 2026 International Conference on Guidance, Navigation and Control

A1		1st Floor VIP Room	
Dynamic GNC		1 层 贵宾厅	
Chairs: Lei Cui			
08:00-08:08		A1.1	
206 Review of high-speed unmanned aerial vehicle localization methods based on dynamic vision sensors			
Xing Qu	AVIC Xi'an Flight Automatic Control Research Institute		Technology
Yingying Liu	AVIC Xi'an Flight Automatic Control Research Institute		Hebei Univ. of Science and Technology
Miao Hui	AVIC Xi'an Flight Automatic Control Research Institute		Hebei Univ. of Science and Technology
08:08-08:16		A1.2	
1518 全电伺服动作系统关键技术展望			
Yuqing Fei	AVIC Chengdu Aircraft Design and Research Institute		Beijing Institute of Technology
Wentao Yu	AVIC Chengdu Aircraft Design and Research Institute		
Jinliang Bian	AVIC Chengdu Aircraft Design and Research Institute		
Jun Zhang	AVIC Chengdu Aircraft Design and Research Institute		
Lin Yang	AVIC Chengdu Aircraft Design and Research Institute		
08:16-08:24		A1.3	
409 Prediction-model-updating tube model predictive control for civil aircraft landing safety			
Hangyu Zhou	Beihang Univ.		
Lingyu Yang	Beihang Univ.		
Jing Zhang	Beihang Univ.		
08:24-08:32		A1.4	
1329 Finite-horizon H^∞ control with transients for linear time-varying systems: an indirect pseudospectral approach			
Junhao Hu	AVIC Chengdu Aircraft Design and Research Institute		
Yinchao Chen	AVIC Chengdu Aircraft Design and Research Institute		
Zhenyu Wang	AVIC Chengdu Aircraft Design and Research Institute		
Zhong Wang	Northwestern Polytechnical Univ.		
Yan Li	Northwestern Polytechnical Univ.		
08:32-08:40		A1.5	
1604 Closed-form controller for safe stabilization of systems with high relative degrees			
Yangyang Xu	Nankai Univ.		
Yuan-Hua Ni	Nankai Univ.		
08:40-08:48		A1.6	
1661 Adaptive velocity constraint control for agile maneuvers of VTOL UAV			
Longxiang Wang	Hebei Univ. of Science and Technology		
Minhui Zhang	Hebei Univ. of Science and Technology		
Pengcheng Zhang	Hebei Univ. of Science and Technology		
Lele Xi	Hebei Univ. of Science and Technology		
Ning Zhou	Hebei Univ. of Science and Technology		
Bing Cui	Beijing Institute of Technology		
08:48-08:56		A1.7	
810 Adaptive prescribed performance tracking control for multi-agent systems with asymmetric dead-zone output			
Wenjun Peng	Univ. of Science and Technology Beijing		
Linlin Li	Univ. of Science and Technology Beijing		
Lei Cui	Univ. of Science and Technology Beijing		
08:56-09:04		A1.8	
876 Cooperative optimal output regulation under quantized communication			
Bingjie Wang	Northeastern Univ.		
Tianyuan Wang	Northeastern Univ.		
Jin Tan	Northeastern Univ.		
Tao Yang	Northeastern Univ.		
09:04-09:12		A1.9	
385 A structure-preserving algorithm for fast suboptimal control of QUAVs			
Hui'an Yan	LiaoNing Technical Univ.,		
Meng Zhang	Southeast Univ.		
Zhuo Liu	Southeast Univ.		
Huixiong Wang	Southeast Univ.		
09:12-09:20		A1.10	
607 A uniform control frame based on homogeneous system theory: from proportional-derivative control to finite-time control to sliding-mode control			
Yao Zhang	Hefei Univ. of Technology		
Yanhao Zhu	Hefei Univ. of Technology		
Jian Xiao	Hefei Univ. of Technology		
Wenwu Zhu	Hefei Univ. of Technology		
Haibo Du	Hefei Univ. of Technology		
Lanlin Yu	Hefei Univ. of Technology		
09:20-09:28		A1.11	
406 Gain scheduling strategy and implementation method for servo control systems with variable loads			
Qian Su	Qing'An Group Co., Ltd.		
Hongjun Pang	Qing'An Group Co., Ltd.		
Shaojin Cui	Qing'An Group Co., Ltd.		
Yongfeng Du	Qing'An Group Co., Ltd.		
Fang Yang	Qing'An Group Co., Ltd.		
Hao Li	Qing'An Group Co., Ltd.		
09:28-09:36		A1.12	
125 Event-Triggered prescribed performance adaptive control via LPV modeling for structurally damaged aircraft			
Jinyang Jiang	Beihang Univ.		
Tianze Lv	Beihang Univ.		
Jing Zhang	Beihang Univ.		

Lingyu Yang	Beihang Univ.	Chunyu Li	Beijing Institute of Technology
09:36-09:44	A1.13	Ziyang Meng	Tsinghua Univ.
1410 <i>Fault diagnosis of civil aircraft hydraulic systems based on domain adversarial learning and supervised contrastive learning</i>		Fei Xing	Tsinghua Univ.
Shengrui Zhang	Nanjing Univ. of Aeronautics and Astronautics	08:32-08:40	A2.5
Jianwei Liu	Nanjing Univ. of Aeronautics and Astronautics	260 <i>Simple soft actor-critic: α-adaptive SAC based on critic evaluation</i>	
Ningning Chen	Nanjing Univ. of Aeronautics and Astronautics	Jiawei Zhao	Xi'an Research Institute of Hi-tech
09:44-09:52	A1.14	Jieyu Liu	Xi'an Research Institute of Hi-tech
1628 <i>Fixed-time security control for cyber-physical systems under FDI attacks and actuator faults</i>		Wei Luo	Xi'an Research Institute of Hi-tech
Baohao Wang	Hebei Univ. of Science and Technology	Jun Zhu	Tsinghua Univ.
Yikai Song	Hebei Univ. of Science and Technology	Dongfang Yang	Xi'an Research Institute of Hi-tech
Ning Zhou	Hebei Univ. of Science and Technology	Tao Zhang	Tsinghua Univ.
Guang Yang	Hebei Univ. of Science and Technology	08:40-08:48	A2.6
Tiejun Li	Hebei Univ. of Science and Technology	839 <i>Functional-part grounding for robot command generation with failure-aware exploration</i>	
09:52-10:00	A1.15	Hengxuan Xu	Tsinghua Univ.
319 <i>Active fault-tolerant control of flap actuator indication mechanism based on fault compensation</i>		Fengbo Lan	Tsinghua Univ.
Jianchi Yu	Qing'An Group Co., Ltd.	Le Shi	Tsinghua Univ.
Peilei Chen	Qing'An Group Co., Ltd.	Guanhua Huang	Tsinghua Univ.
A2 2nd Floor Yangshuo Room		Tao Xue	Tsinghua Univ.
Learning GNC 2 层 阳朔厅		Tao Zhang	Tsinghua Univ.
Chairs: He Wang		08:48-08:56	A2.7
08:00-08:08	A2.1	1409 <i>A semi-automatic annotation method for anti-UAV based on agent interaction</i>	
1462 <i>Multimodal large language model-driven structure-aware ensemble evolutionary optimization for combinatorial problems</i>		Zhiyang Sun	Sun Yat-sen Univ.
Jie Zhao	Southeast Univ.	Jiajun Zhu	Sun Yat-sen Univ.
08:08-08:16	A2.2	Chengwei Li	Sun Yat-sen Univ.
1754 融合 Kolmogorov-Arnold 网络的时空 Transformer 图卷积网络交通流预测方法		Junfei Chen	Sun Yat-sen Univ.
Liuyan Jin	Tsinghua Univ.	Yong Wang	Sun Yat-sen Univ.
Mingmao Hu	Hubei Univ. of Automotive Technology	08:56-09:04	A2.8
Xing Zhang	Tsinghua Univ.	434 <i>Research on space non-cooperative target intent recognition based on BIGRU-SA-Transformer</i>	
Yu Jiang	Suzhou Yuanzi Intelligent Technology Co., Ltd.	Zhan Gao	Space Engineering Univ.
Zheng Qiu	Tsinghua Univ.	Ang Li	Space Engineering Univ.
Jihong Zhu	Tsinghua Univ.	Bin Wang	Space Engineering Univ.
08:16-08:24	A2.3	Runnan Qin	National Space Science Center, CAS
1565 <i>Deep reinforcement learning for time-splitting MF-RIS-assisted anti-jamming communications</i>		09:04-09:12	A2.9
Yiting Hong	Southeast Univ.	1275 <i>Structracker: UAV swarm tracking based on local formation-structure priors</i>	
He Wang	Southeast Univ.	Yongrui Zhang	Northwestern Polytechnical Univ.
Wenwu Yu	Southeast Univ.	Hua Lan	Northwestern Polytechnical Univ.
08:24-08:32	A2.4	09:12-09:20	A2.10
1235 <i>Task-guided one-step flow-based infrared generation for visual place recognition</i>		1080 <i>Describe, do not judge: implicit knowledge injection for multimodal emotion recognition in embodied AI</i>	
Liangzheng Sun	Beijing Information Science and Technology Univ.	Yuer Li	Tsinghua Univ.
Mengfan He	Tsinghua Univ.	Xiaohui Fan	Tsinghua Univ.
Xingyu Shao	Tsinghua Univ.	Wei Ren	Tsinghua Univ.
Kai Zhou	Tsinghua Univ.	Feng Chen	Lenovo Research
Mingli Dong	Beijing Information Science and Technology Univ.	Jun Xie	Lenovo Research
		Zimeng Tan	Lenovo Research
		Tao Xue	Tsinghua Univ.
		Tao Zhang	Tsinghua Univ.
		09:20-09:28	A2.11
		1482 基于改进 DeblurGAN-v2 模型的偏振图像重建方法	
		Dong Han	North Univ. of China
		Xiaochen Liu	North Univ. of China

Chong Shen	North Univ. of China	Ming Yang	Harbin Institute of Technology
09:28-09:36	A2.12	Jiadong Yang	Harbin Institute of Technology
1136 面向卫星多维遥测数据的时频协同隐性特征提取与异常检测		Tao Chao	Harbin Institute of Technology
Kaiyun Hu	Nanjing Univ. of Aeronautics and Astronautics	08:24-08:32	A3.4
Yajie Ma	Nanjing Univ. of Aeronautics and Astronautics	420 <i>Autonomous navigation methods for mega-constellations based on information interaction</i>	
Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics	Weiyu Zhao	National Univ. of Defense Technology
09:36-09:44	A2.13	Zisheng Fang	National Univ. of Defense Technology
772 <i>Hybrid modeling and control of a rotor-assisted wheel-legged robot</i>		Bowen Hou	National Univ. of Defense Technology
Zhiheng Dai	Beihang Univ.	08:32-08:40	A3.5
Xinglu Xia	Beihang Univ.	140 <i>A dual-layer game-inspired unscented Kalman filter approach for dynamic aerodynamic parameter identification of guided projectiles</i>	
Zizhuo Cai	Beihang Univ.	Jiachao Wu	Nanjing Univ. of Science and Technology
Yiyu Wang	Beihang Univ.	Jinwen Wang	Nanjing Univ. of Science and Technology
Qidi Wang	Beihang Univ.	Hongxuan Che	Nanjing Univ. of Science and Technology
Zichun Guo	Beihang Univ.	Chen Huang	Nanjing Univ. of Science and Technology
Yingjian Xu	Beijing Aero King Technology Co., Ltd.	08:40-08:48	A3.6
Yingxun Wang	Beihang Univ.	463 <i>Semi-physical simulation system design and verification for space target angular velocity estimation based on sequential images</i>	
09:44-09:52	A2.14	Bowen Hou	National Univ. of Defense Technology
1700 <i>Safety assessment of logic control networks</i>		Yijie Zhang	National Univ. of Defense Technology
Yue Wu	Academy of Mathematics and Systems Sciences, CAS	08:48-08:56	A3.7
Hongsheng Qi	Academy of Mathematics and Systems Sciences, CAS	1223 <i>Robust pedestrian navigation using graduated nonconvexity geman-mcclure cost</i>	
09:52-10:00	A2.15	Zheming Tu	National Univ. of Defense Technology
1510 <i>A method for optimizing communication routing for domain control in mega-constellation remote sensing missions</i>		Yan Guo	National Univ. of Defense Technology
Pengfei Chen	Sichuan Univ.	Wenqi Wu	National Univ. of Defense Technology
Bin Li	Sichuan Univ.	Xianfei Pan	National Univ. of Defense Technology
Qinglong Huang	Shanghai Satellite Engineering Research Institute	08:56-09:04	A3.8
Mingming Shi	Sichuan Univ.	392 <i>Enhanced LIVO: LiDAR-assisted visual feature optimization for challenging environments</i>	
A3	2nd Floor Lipu Room	Yuanchao Qiu	Beijing Institute of Technology
Precision GNC	2 层 荔浦厅	Yuhang Zhang	Beijing Institute of Technology
Chairs: Zhi Xiong		Yan Yang	Beijing Institute of Technology
08:00-08:08	A3.1	Haikuo Liu	Beijing Institute of Technology
528 <i>Autonomous navigation error modeling and accuracy inversion of deep space probes based on optical sensors</i>		Changkun Du	China Aerospace Science and Industry Corporation
Zhicheng Wei	National Univ. of Defense Technology	Zhen Li	Beijing Institute of Technology
Yuchen Li	National Univ. of Defense Technology	09:04-09:12	A3.9
Bowen Hou	National Univ. of Defense Technology	502 基于高斯混合置信传播的无人机群协同导航方法	
08:08-08:16	A3.2	Mingxing Chen	Anhui Institute of Technology
1186 基于自适应误差抑制的惯性测量单元改进预积分定位方法		Zhi Xiong	Nanjing Univ. of Aeronautics and Astronautics
Yuhang Jia	Beihang Univ.	Li Guo	Anhui Institute of Technology
Jian Shi	Beihang Univ.	Tanglin Chen	China Skyero Aero-Engine Maintenance Co., Ltd.
Shaoping Wang	Beihang Univ.	09:12-09:20	A3.10
Rui Mu	Beihang Univ.	716 一种基于运动条件约束更新的视觉惯性里程计	
08:16-08:24	A3.3	Jiading Han	Nanjing Univ. of Aeronautics and Astronautics
218 <i>Time-domain re-segmentation for LIDAR-only odometry and an origin-constrained trajectory evaluation method</i>		Ling Zhang	Nanjing Univ. of Aeronautics and Astronautics
Xu Wen	Harbin Institute of Technology	Jingqi Wang	Nanjing Univ. of Aeronautics and Astronautics
Wei He	Shanghai Electro-Mechanical Engineering Institute	Zhiming Zhou	Nanjing Univ. of Aeronautics and Astronautics

	Astronautics
Xiang Gao	Nanjing Univ. of Aeronautics and Astronautics
Zhi Xiong	Nanjing Univ. of Aeronautics and Astronautics
09:20-09:27	A3.11
717 基于占据栅格粒子滤波回环优化的头盔同步定位与建图方法	
Yifu Wang	Nanjing Univ. of Aeronautics and Astronautics
Ling Zhang	Nanjing Univ. of Aeronautics and Astronautics
Jiading Han	Nanjing Univ. of Aeronautics and Astronautics
Yan Cui	Nanjing Univ. of Aeronautics and Astronautics
Zhi Xiong	Nanjing Univ. of Aeronautics and Astronautics
09:27-09:35	A3.12
1151 基于组合权重的机载导航系统性能评估方法	
Jiayang Zhang	Nanjing Univ. of Aeronautics and Astronautics
Zhi Xiong	Nanjing Univ. of Aeronautics and Astronautics
Huiyu He	Nanjing Univ. of Aeronautics and Astronautics
Xinrui Zhang	Nanjing Univ. of Aeronautics and Astronautics
Tianji Wu	Nanjing Univ. of Aeronautics and Astronautics
09:35-09:44	A3.13
1324 Robust LiDAR-inertial-wheel odometry via degeneracy-aware adaptive fusion method	
Zhiming Zhou	Nanjing Univ. of Aeronautics and Astronautics
Zhi Xiong	Nanjing Univ. of Aeronautics and Astronautics
Ling Zhang	Nanjing Univ. of Aeronautics and Astronautics
Xiang Gao	Nanjing Univ. of Aeronautics and Astronautics
09:44-09:52	A3.14
1078 The impact of attitude perturbations on the estimation of gravitational and magnetic field disturbances	
Zeliang Zhang	Univ. of Electronic Science and Technology of China
Zebo Zhou	Univ. of Electronic Science and Technology of China
Bei Chen	Univ. of Electronic Science and Technology of China
09:52-10:00	A3.15
123 Research on a frequency increase prediction method for laser gyroscope attitude reference information	
Yue Leng	Huazhong Institute of Electro-Optics
Pinghuang Zhou	Huazhong Institute of Electro-Optics
Wenyu Ai	Huazhong Institute of Electro-Optics
Kun Wang	Huazhong Institute of Electro-Optics
A4	2nd Floor Nanning Room1

Advanced GNC	2 层 南宁厅 1
Chairs: Pin Lyu	
08:00-08:08	A4.1
175 Spatial-temporal cooperative guidance considering aerodynamic drag	
Cheng Wan	Beijing Institute of Technology
Wenliang Peng	Beijing Institute of Technology, Zhuhai
08:08-08:16	A4.2
274 Cooperative terminal guidance synthesis via a hierarchical coupled scheme for time-of-arrival and impact angle control	
Zhenyu Gong	Nanjing Univ. of Aeronautics and Astronautics
Li Li	Beijing Aero Lever Precision Limited
Lei Xie	Nanjing Univ. of Aeronautics and Astronautics
Shuang Li	Nanjing Univ. of Aeronautics and Astronautics
08:16-08:24	A4.3
1665 Active load relief method based on nonlinear disturbance observer of launch vehicles	
Ziao Tang	National Univ. of Defense Technology
Ruizhi He	National Univ. of Defense Technology
Hongyan Huang	Xichang Satellite Launch Center
Chunfeng Zhang	Xichang Satellite Launch Center
Guojian Tang	National Univ. of Defense Technology
Weimin Bao	China Aerospace Science and Technology Corporation
08:24-08:32	A4.4
669 Coupling/disturbance-utilization control for hypersonic vehicles	
Yi Du	Beihang Univ.
Honglun Wang	Beihang Univ.
Bin Ren	Beihang Univ.
08:32-08:40	A4.5
743 Three-dimensional impact time and angle control guidance with field-of-view constraint	
Haoyu Zheng	Harbin Institute of Technology
Bin Zhou	Harbin Institute of Technology
Yihao Wang	Harbin Institute of Technology
08:40-08:48	A4.6
1037 Minimum-flight-time spatiotemporal cooperative guidance	
Haojian Li	National Univ. of Defense Technology
Kebo Li	National Univ. of Defense Technology
Jin Tang	National Univ. of Defense Technology
Yangang Liang	National Univ. of Defense Technology
08:48-08:56	A4.7
864 变体飞行器柔性预设性能抗饱和和控制方法研究	
Wei Li	Yunnan Police College
Xingji He	Yunnan Police College
Qunli Xia	Beijing Institute of Technology
08:56-09:04	A4.8
680 Potential-flow field integration method for hypersonic gliding vehicle with dynamic no-fly zone	
Han Song	Beijing Institute of Technology
Shen Kang	Beijing Galactic Energy Space

	Technology Co., Ltd.	
Junhui Liu	Beijing Institute of Technology	
Chunyu Li	Beijing Institute of Technology	
Jiayuan Shan	Beijing Institute of Technology	
09:04-09:12	A4.9	
1495 <i>A predictive entry guidance for reusable launched vehicles based on an improved MIT adaptive law</i>		
Xiangyu Yan	National Univ. of Defense Technology	
Xiang Zhou	National Univ. of Defense Technology	
Zixin Wang	National Univ. of Defense Technology	
Hongbo Zhang	National Univ. of Defense Technology	
Guojian Tang	National Univ. of Defense Technology	
09:12-09:20	A4.10	
667 <i>Trajectory planning method for morphing vehicle based on improved sequential convex optimization theory</i>		
Sibo Zhao	Rocket Force Univ. of Engineering	
Jianwen Zhu	Rocket Force Univ. of Engineering	
Xiang Zhou	National Univ. of Defense Technology	
Hao Zhang	Xidian Univ.	
Siyu Dai	Rocket Force Univ. of Engineering	
09:20-09:28	A4.11	
568 <i>Visual servoing based optimal positioning for quadrotor in space unmanned systems via adaptive dynamic programming</i>		
Shenyi Jiang	Harbin Institute of Technology	
Xuebo Yang	Harbin Institute of Technology	
Yuan Li	National Univ. of Defense Technology	
Heng Yang	Harbin Institute of Technology	
Jialu Li	Harbin Institute of Technology	
09:28-09:36	A4.12	
1406 <i>Lightweight group-aware association for UAV multi-object tracking with YOLO11</i>		
Defeng Sun	Naval Aviation Univ.	
Shaowu Dai	Naval Aviation Univ.	
Zhicai Xiao	Naval Aviation Univ.	
Shun Sun	Naval Aviation Univ.	
Yahui Qi	Naval Aviation Univ.	
Bei Qian	Naval Aviation Univ.	
09:36-09:44	A4.13	
590 <i>Robust self-learning 3-D anti-UAV guidance without disturbance estimation</i>		
Yanbin Du	Institute of Automation, CAS	
Dongdong Ni	Institute of Automation, CAS	
Hao Ren	Nanjing Univ. of Aeronautics and Astronautics	
Qinglai Wei	Institute of Automation, CAS	
Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics	
09:44-09:52	A4.14	
190 <i>Robust localization and joint NLoS error estimation in mixed LoS/NLoS scenarios based on statistical constraint relaxation</i>		
Yanbiao Gao	Beijing Univ. of Posts and Telecommunications	
Zhongliang Deng	Beijing Univ. of Posts and Telecommunications	
09:52-10:00	A4.15	
228 <i>Real-time skeleton extraction-based path planning method for pipe-inspection UAVs</i>		

Lu Zeng	Nanjing Univ. of Aeronautics and Astronautics	
Chen Cao	Nanjing Univ. of Aeronautics and Astronautics	
Pin Lyu	Nanjing Univ. of Aeronautics and Astronautics	
Yebei Wen	Nanjing Univ. of Aeronautics and Astronautics	
Zehui Fu	Nanjing Univ. of Aeronautics and Astronautics	
A5		2nd Floor Nanning Room2
Planning GNC		2 层 南宁厅 2
Chairs: Jiang Zhao		
08:00-08:08	A5.1	
1158 <i>An airspace capacity assessment method for low-altitude UAV operations based on a task-space footprint field</i>		
Xiaoyu Zhang	Air Force Engineering Univ.	
Fuping Yu	Air Force Engineering Univ.	
Di Shen	Air Force Engineering Univ.	
Dan Huo	Air Force Engineering Univ.	
08:08-08:16	A5.2	
1708 <i>Wake encounter response and safe separation for rotorcraft following fixed-wing aircraft during approach</i>		
Lekun Kuang	Air Force Engineering Univ.	
Jiangbin Dai	Air Force Engineering Univ.	
Duo Qi	Air Force Engineering Univ.	
08:16-08:24	A5.3	
1709 <i>Dynamic separation optimization method for eVTOL based on low-altitude risk constraints</i>		
Hang Xu	Air Force Engineering Univ.	
Jiangbin Dai	Air Force Engineering Univ.	
Duo Qi	Air Force Engineering Univ.	
08:24-08:32	A5.4	
311 <i>Stage-aware planning augmentation for two-stage vision-language drone navigation</i>		
Jiayu Zhao	National Univ. of Defense Technology	
Keyu Zhao	National Univ. of Defense Technology	
Xiaoguang Chen	National Univ. of Defense Technology	
Aiwei Liu	National Univ. of Defense Technology	
Xueqiang Gu	National Univ. of Defense Technology	
08:32-08:40	A5.5	
337 <i>VoroSD-Alloc: Voronoi regional allocation with static-dynamic strategies for UAV swarm 3D exploration using octree mapping</i>		
Pei Chi	Beihang Univ.	
Deer Li	Beihang Univ.	
Yingxun Wang	Beihang Univ.	
Jiang Zhao	Beihang Univ.	
08:40-08:48	A5.6	
341 <i>基于动力学包络估计的无人机混合强化学习控制</i>		
Shengyuan Hu	Nanjing Univ. of Aeronautics and Astronautics	
Huajun Gong	Nanjing Univ. of Aeronautics and Astronautics	
Xinhua Wang	Nanjing Univ. of Aeronautics and Astronautics	
08:48-08:56	A5.7	
422 <i>A three-dimensional high-precision guidance strategy for</i>		

skyhook recovery of shipborne UAV

Xinyang Du	Northwestern Polytechnical Univ.
Guangwen Li	Northwestern Polytechnical Univ.
Shaobo Zhai	Northwestern Polytechnical Univ.
08:56-09:04	A5.8

879 *Robust attitude stabilization for fixed-wing UAVs with center-of-gravity shifts*

Shaobo Zhai	Northwestern Polytechnical Univ.
Guangwen Li	Northwestern Polytechnical Univ.
Xinyang Du	Northwestern Polytechnical Univ.
Junmin Cheng	Northwestern Polytechnical Univ.
09:04-09:12	A5.9

1128 *Micro unmanned aerial vehicle deployment flight control based on improved active disturbance rejection control*

Bo Zhang	Beihang Univ.
Zhihao Cai	Beihang Univ.
Nianzheng Feng	Beihang Univ.
09:12-09:20	A5.10

1361 *基于信号时间逻辑任务的纵列式无人直升机双层模型预测控制*

Tianci Wang	Nanjing Univ. of Aeronautics and Astronautics
Xinhua Wang	Nanjing Univ. of Aeronautics and Astronautics
09:20-09:28	A5.11

1259 *Wind-driver: a wind-aware planning-and-control framework for quadrotors*

Yuyang Wang	Beihang Univ.
Jindou Jia	Beihang Univ.
Zeshuai Chen	Beihang Univ.
Weipeng Li	Beihang Univ.
Kexin Guo	Beihang Univ.
Xiang Yu	Beihang Univ.
Lei Guo	Beihang Univ.
09:28-09:36	A5.12

1363 *Reinforcement learning for wind-resistant attitude-aware offshore hovering of fully-actuated quadrotors*

Yishuai Zeng	Guangdong Univ. of Technology
Yufan Liu	Guangdong Univ. of Technology
Wei Meng	Guangdong Univ. of Technology
09:36-09:44	A5.13

653 *A CBF-based safe flight control method of drones with model predictive control*

Zibo Chen	Univ. of Science and Technology of China
Haibo Ji	Univ. of Science and Technology of China
09:44-09:52	A5.14

545 *Dynamics modeling method of unmanned helicopter based on SE(3) manifold and convex-constrained Hamiltonian neural ODE*

Yuanyuan Gao	Hefei Univ. of Technology
Shaowen Ding	Hefei Univ. of Technology
Shaofeng Chen	Hefei Univ. of Technology
Yu Kang	Hefei Univ. of Technology
Jing Lai	Hefei Univ. of Technology

A6 **2nd Floor Nanning Room3**

Autonomous GNC **2 层 南宁厅 3**

Chairs: Xiaoshan Gao	
08:00-08:08	A6.1

634 *Deep reinforcement learning-based integration of path planning and control for fixed-wing UAVs*

Zhanfan Bai	Beihang Univ.
Honglun Wang	Beihang Univ.
Bin Ren	Beihang Univ.
Zikang Su	Nanjing Univ. of Aeronautics and Astronautics
08:08-08:16	A6.2

670 *A reinforcement learning-guided sampling approach for resolving the RRT*-based UAV path planning problem in complex 3D terrain*

Hongrui Zhang	Beihang Univ.
Honglun Wang	Beihang Univ.
Bin Ren	Beihang Univ.
08:16-08:24	A6.3

251 *基于课程学习增强型 DDPG 的复杂海洋环境下 AUV 突防策略研究*

Peijie Geng	Harbin Engineering Univ.
Yuxin Zhao	Harbin Engineering Univ.
Xiong Deng	Harbin Engineering Univ.
08:24-08:32	A6.4

253 *CNOP-guided multi-AUV cooperative thermocline observation with centralized training and decentralized execution for continuous-action multi-agent reinforcement learning*

Ming Lei	Harbin Engineering Univ.
Yuxin Zhao	Harbin Engineering Univ.
Xiong Deng	Harbin Engineering Univ.
08:32-08:40	A6.5

637 *Brain-inspired goal-directed navigation based on place cells and action cells*

Haotian Wang	Nanjing Univ. of Aeronautics and Astronautics
Ling Zhang	nanjing Univ. of aeronautics and astronautics
Zhi Xiong	Nanjing Univ. of Aeronautics and Astronautics
Chenxu Wang	Nanjing Univ. of Aeronautics and Astronautics
Yudi Chen	Nanjing Univ. of Aeronautics and Astronautics
08:40-08:48	A6.6

1260 *Trajectory tracking and robust control of wall-climbing robots: a composite PID-sliding mode approach*

Hanzhi Hu	Beihang Univ.
Xiaoshan Gao	Beihang Univ.
Liang Yan	Beihang Univ.
Han Wang	Beijing Institute of Technology
08:48-08:56	A6.7

1016 *Powered descent phase trajectory planning for Mars soft landing under hazardous terrain and multiple safety constraints*

Zikang Guo	Harbin Institute of Technology
Haiyu Xu	Shanghai Institute of Satellite Engineering
Pengyu Wang	Harbin Institute of Technology

Yuhan Liu	Harbin Institute of Technology	Astronautics	
Yanning Guo	Harbin Institute of Technology	City Univ. of Hong Kong	
08:56-09:04	A6.8	09:52-10:00	A6.15
171 JGH A*: JPS-guided hybrid A* for efficient and kinematically feasible vehicle pathfinding		612 Influence of tanker status on the dynamic behavior of the aerial refueling probe-drogue System	
Jiadong Yang	Harbin Institute of Technology	Linhan Qiao	Northwestern Polytechnical Univ.
Wei He	Shanghai Electro-Mechanical Engineering Institute	Zehua Zhang	Northwestern Polytechnical Univ.
Xu Wen	Harbin Institute of Technology	Jiashuo Liu	Northwestern Polytechnical Univ.
Xiaofeng Han	Harbin Institute of Technology	Su Yang	Northwestern Polytechnical Univ.
Tao Chao	Harbin Institute of Technology	Shihao Zhao	Northwestern Polytechnical Univ.
09:04-09:12	A6.9	Zimeng Wu	Northwestern Polytechnical Univ.
971 Flight plan correction method based on PSO		Zicheng Fan	Northwestern Polytechnical Univ.
Yuning Song	Beijing Keeven Aviation Instrument Co., Ltd.	Yaohong Qu	Northwestern Polytechnical Univ.
09:12-09:20	A6.10	A7 2nd Floor Longsheng Room	
1121 Reinforcement learning-based UAV path planning method with integrated ORCA safety constraints		Formation GNC 2 层 龙胜厅	
Peng Wang	Civil Aviation Univ. of China	Chairs: Maolong Lv	
Hao Chang	Civil Aviation Univ. of China	08:00-08:08	
Nan Xu	Civil Aviation Univ. of China	A7.1	
Jingyi Qu	Civil Aviation Univ. of China	165 Robust bipartite consensus of multi-agent systems over signed graphs with edge-wise communication uncertainties	
09:20-09:28	A6.11	Miao Liu	Nanjing Tech Univ.
1751 Active reconstruction of planetary surface topography based on next best view selection		Shenglong Wu	Nanjing Tech Univ.
Chuxuan Liu	Nanjing Univ. of Aeronautics and Astronautics	Mingxing Ke	National Univ. of Defense Technology
Chenxi Lu	Nanjing Univ. of Aeronautics and Astronautics	Shaopan Guo	Nanjing Tech Univ.
Meng Yu	Nanjing Univ. of Aeronautics and Astronautics	Long Xiao	Nanjing Tech Univ.
09:28-09:36	A6.12	08:08-08:16	
1393 基于梯次优化的低空物流自适应集群任务分配		A7.2	
Sijia Liu	Institute of Automation, CAS	1234 Distributed predefined-time time-varying optimal formation for multi-agent systems	
Xiaolin Ai	Institute of Automation, CAS	Jin Tan	Northeastern Univ.
Zhiqiang Pu	Institute of Automation, CAS	Bingjie Wang	Northeastern Univ.
09:36-09:44	A6.13	Tianyuan Wang	Northeastern Univ.
367 自监督 LSTM 增强的视觉惯性里程计		Tao Yang	Northeastern Univ.
Bo Yang	Nanjing Univ. of Posts and Telecommunications	08:16-08:24	
Chao Wang	Shanghai Huace Navigation Technology Co., Ltd.	A7.3	
Yifan Zhou	Nanjing Univ. of Posts and Telecommunications	1701 基于相对方位测量的相机目标定位系统最优布设与选择	
Feng Zhou	Nanjing Univ. of Posts and Telecommunications	Liang Zhang	Anhui Univ.
Wenbo Zhang	Nanjing Univ. of Posts and Telecommunications	08:24-08:32	
Jun Xiong	Nanjing Univ. of Posts and Telecommunications	A7.4	
09:44-09:52	A6.14	1666 Learning-based safe optimal avoidance control for nonlinear systems with dynamic obstacles	
1246 Data-driven synthesis of optimal stealthy attacks in multi-agent systems		Ping Wang	Beijing Information Science and Technology Univ.
Shiyong Zhu	City Univ. of Hong Kong	Chengpu Yu	Beijing Institute of Technology
Kangkang Zhang	Nanjing Univ. of Aeronautics and Astronautics	Junfang Fan	Beijing Information Science and Technology Univ.
Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics	Maolong Lv	Air Force Engineering Univ.
		Bingqi Liu	Beijing Information Science and Technology Univ.
		08:32-08:40	
		A7.5	
		195 Trajectory optimization for quadrotors using flatness-based differential dynamic programming	
		Siyu Zhou	Beijing Institute of Technology
		Feiran Xia	Beijing Institute of Technology
		Shaoming He	Beijing Institute of Technology
		08:40-08:48	
		A7.6	
		305 UAV-DualSim: a high-fidelity dual-modal UAV dataset via physics-based thermal simulation	
		Hailong Xi	Air Force Engineering Univ.
		Le Ru	Air Force Engineering Univ.

Maolong Lv	Air Force Engineering Univ.	Chenning Zhang	Xidian Univ.
Wenfei Wang	Air Force Engineering Univ.	Jiaxuan Ren	Xidian Univ.
Rui Zhu	Air Force Engineering Univ.	Pei Dai	Xidian Univ.
Yang Li	Northwestern Polytechnical Univ.	Dongzhu Feng	Xidian Univ.
08:48-08:56	A7.7	09:52-10:00	A7.15
306 <i>Research on UAV/UGV cooperative formation change and tracking methods</i>		1567 <i>Performance comparison of multi-parameter estimation in trajectory prediction of reentry glide vehicles and analysis of data scale effects</i>	
Longhao Liu	Air Force Engineering Univ.	Yichen Liu	Air Force Engineering Univ.
Le Ru	Air Force Engineering Univ.	Chijun Zhou	Air Force Engineering Univ.
Yifan Li	Unit 94754	Xueqian Wang	Air Force Engineering Univ.
08:56-09:04	A7.8	Jikun Ye	Air Force Engineering Univ.
436 <i>Three-dimensional optimal cooperative line-of-sight guidance for aircraft active defense</i>		A8 2nd Floor Guilin Room 2	
Qunchang Gao	Beijing Institute of Technology	Intelligent GNC 2 层 桂林厅 2	
Junhui Li	Beijing Institute of Technology	Chairs: Bonan Yuan	
Shaoming He	Beijing Institute of Technology	08:00-08:08 A8.1	
09:04-09:12	A7.9	297 <i>Robust coordination of humanoid upper-body via adaptive weighted damped least squares</i>	
517 <i>Field-of-view constrained optimal three-dimensional impact angle control guidance</i>		Yunze Shi	AVIC Xi'an Flight Automatic Control Research Institute
Tianhao Jiang	Beijing Institute of Technology	Ziyi Liu	AVIC Xi'an Flight Automatic Control Research Institute
Shaoming He	Beijing Institute of Technology	Bonan Yuan	AVIC Xi'an Flight Automatic Control Research Institute
09:12-09:20	A7.10	Lei Zhou	AVIC Xi'an Flight Automatic Control Research Institute
585 <i>Manned-unmanned cooperative air combat task allocation strategy: a Hungarian algorithm-based design approach</i>		08:08-08:16 A8.2	
Fangbo Xiao	Air Force Engineering Univ.	307 <i>Cooperative path planning and multi-objective trajectory optimization for dual-arm robotic systems in complex operational environments</i>	
Tongyu Shi	Air Force Engineering Univ.	Bonan Yuan	AVIC Xi'an Flight Automatic Control Research Institute
maolong Lv	Air Force Engineering Univ.	Chenxiao Jiu	AVIC Xi'an Flight Automatic Control Research Institute
Xitong Han	Air Force Engineering Univ.	Qiang Tang	AVIC Xi'an Flight Automatic Control Research Institute
Chenbo Ding	Air Force Engineering Univ.	Zhipeng Sun	AVIC Xi'an Flight Automatic Control Research Institute
09:20-09:28	A7.11	Yunze Shi	AVIC Xi'an Flight Automatic Control Research Institute
586 <i>Deep reinforcement learning-based adaptive parameter tuning for UAV swarm trajectory optimization in cluttered environments</i>		08:16-08:24 A8.3	
Yuchen Li	Air Force Engineering Univ.	387 <i>Offline genetic algorithm-based PID auto-tuning for embodied intelligent pilot under composite delays</i>	
Maolong Lv	Air Force Engineering Univ.	Chulei Meng	AVIC Xi'an Flight Automatic Control Research Institute
Yuntao Xue	Taiyuan Univ. of Technology	Minghui Zhang	AVIC Xi'an Flight Automatic Control Research Institute
09:28-09:36	A7.12	Hao Wang	AVIC Xi'an Flight Automatic Control Research Institute
587 <i>Adaptive optimization method for drone formation parameters based on deep reinforcement learning</i>		08:24-08:32 A8.4	
Xuanhao Liang	Air Force Engineering Univ.	485 <i>SLAM and hierarchical fusion for humanoid robot interaction: an aircraft parts explanation assistant</i>	
Maolong Lv	Air Force Engineering Univ.	Weitong Liu	AVIC Xi'an Flight Automatic Control Research Institute
Yuntao Xue	Taiyuan Univ. of Technology	Shaolong Song	AVIC Xi'an Flight Automatic Control Research Institute
09:36-09:44	A7.13	Bowei Wang	AVIC Xi'an Flight Automatic Control Research Institute
588 <i>Heterogeneous UAV team air confrontation strategy: a SECA-based design approach</i>			
Hengzhi Fan	Air Force Engineering Univ.		
Maolong Lv	Air Force Engineering Univ.		
Shuaijie Wang	Air Force Engineering Univ.		
Chenbo Ding	Air Force Engineering Univ.		
Jiaheng Tang	Air Force Engineering Univ.		
Jinhe Wang	Air Force Engineering Univ.		
09:44-09:52	A7.14		
836 <i>Connectivity-driven self-organizing task routing for UAV swarms in low-altitude denied environments</i>			
Chenkai Zhang	Xidian Univ.		
Kaixuan Kang	Univ. of Chinese Academy of Sciences		

Xiaole Xu	Control Research Institute	Lei Zhou	AVIC Xi'an Flight Automatic
	AVIC Xi'an Flight Automatic		Control Research Institute
	Control Research Institute	Bonan Yuan	AVIC Xi'an Flight Automatic
	AVIC Xi'an Flight Automatic		Control Research Institute
	Control Research Institute	Zhipeng Sun	AVIC Xi'an Flight Automatic
Xiwen Yao	Northwestern Polytechnical Univ.		Control Research Institute
08:32-08:40		Ziyi Liu	AVIC Xi'an Flight Automatic
672 基于混合现实技术的机场空管显示系统的设计与实现			Control Research Institute
Hao Wang	National Key Laboratory of Aircraft	09:20-09:28	
	Integrated Flight Control	A8.11	
Minghui Zhang	National Key Laboratory of Aircraft	1466 Ensuring safety in autonomous aircraft manipulation via	
	Integrated Flight Control	time-optimal planning and multi-modal compliant control	
08:40-08:48		Kaihao Wen	AVIC Xi'an Flight Automatic
759 intelligent autonomous obstacle avoidance and control for			Control Research Institute
small high-speed fixed-wing UAVs		Dihong Pan	AVIC Xi'an Flight Automatic
Linqi Zhan	Tsinghua Univ.		Control Research Institute
Kang Wang	Tsinghua Univ.	Zhipeng Sun	AVIC Xi'an Flight Automatic
08:48-08:56			Control Research Institute
858 Pilot agent technology: framework, applications and		Weijia Wang	AVIC Xi'an Flight Automatic
challenges			Control Research Institute
Rong Ma	National Key Laboratory of Aircraft	Rong Ma	AVIC Xi'an Flight Automatic
	Integrated Flight Control		Control Research Institute
Weijia Wang	National Key Laboratory of Aircraft	09:28-09:36	
	Integrated Flight Control	A8.12	
Zhipeng Sun	National Key Laboratory of Aircraft	1488 Task-oriented motion planning method for manipulator	
	Integrated Flight Control	system in aviation scenarios	
Dihong Pan	National Key Laboratory of Aircraft	Dihong Pan	National Key Laboratory of Aircraft
	Integrated Flight Control		Integrated Flight Control
Kaihao Wen	National Key Laboratory of Aircraft	Kaihao Wen	National Key Laboratory of Aircraft
	Integrated Flight Control		Integrated Flight Control
08:56-09:04		Weijia Wang	National Key Laboratory of Aircraft
872 人形机器人髋膝关节驱动机构设计与参数优化			Integrated Flight Control
Chi Zhang	AVIC Xi'an Flight Automatic	Zhipeng Sun	National Key Laboratory of Aircraft
	Control Research Institute		Integrated Flight Control
Kexin Dang	AVIC Xi'an Flight Automatic	Rong Ma	National Key Laboratory of Aircraft
	Control Research Institute		Integrated Flight Control
Bonan Yuan	AVIC Xi'an Flight Automatic	09:36-09:44	
	Control Research Institute	A8.13	
Wei Zhang	AVIC Xi'an Flight Automatic	1740 Task-conditioned modeling and control strategies for dual-	
	Control Research Institute	arm manipulation: a concise critical review	
09:04-09:12		Ziyi Liu	AVIC Xi'an Flight Automatic
1362 Voice coordination and formation control for airborne			Control Research Institute
operations based on collaborative tags		Yunze Shi	AVIC Xi'an Flight Automatic
Quanlin Qi	AVIC Xi'an Flight Automatic		Control Research Institute
	Control Research Institute	Bonan Yuan	AVIC Xi'an Flight Automatic
Ziming Liu	AVIC Xi'an Flight Automatic		Control Research Institute
	Control Research Institute	Yuda Gao	AVIC Xi'an Flight Automatic
Jinzhao Zhang	AVIC Xi'an Flight Automatic		Control Research Institute
	Control Research Institute	Kexin Dang	AVIC Xi'an Flight Automatic
Weijia Wang	AVIC Xi'an Flight Automatic		Control Research Institute
	Control Research Institute	Yuxuan Sun	AVIC Xi'an Flight Automatic
09:12-09:20			Control Research Institute
1442 分层解耦式 MIT 控制参数自动化测试系统设计与应用		09:44-09:52	
Yuxuan Sun	AVIC Xi'an Flight Automatic	A8.14	
	Control Research Institute	449 Low-frequency deployment of whole-body control algorithm	
Yuda Gao	AVIC Xi'an Flight Automatic	for humanoid robots based on prioritized tasks	
	Control Research Institute	Guanjie Wang	AVIC Xi'an Flight Automatic Control
			Research Institute
		Yunze Shi	AVIC Xi'an Flight Automatic Control
			Research Institute
		Ke Yu	AVIC Xi'an Flight Automatic Control

Research Institute		Jieping Yu	Beijing Institute of Automatic
09:52-10:00	A8.15	Chunyu Qu	Control Equipment
515 <i>Technical requirements for comprehensive testing of modular wires in civil aircraft EWIS</i>		Beihang Univ.	
Ci An	COMAC Shanghai Aircraft Design and Research Institute	08:40-08:48	A9.6
A9	2nd Floor Guilin Room 2	465 <i>Multi-AUV cooperative navigation with out-of-sequence measurement compensation and deep learning-based process noise modeling</i>	
Recognition GNC	2 层 桂林厅 2	Kewei Yu	Beijing Institute of Technology
Chairs: Qingkai Meng		Zhaonan Jiao	Beijing Institute of Technology
08:00-08:08	A9.1	Shengwu Zhao	Beijing Institute of Technology
102 <i>CY-LIO: LIDAR-Inertial SLAM enhanced by semantic segmentation</i>		Zhihong Deng	Beijing Institute of Technology
Qiang Xu	Nanjing Univ. of Science and Technology	08:48-08:56	A9.7
Liu He	Nanjing Univ. of Science and Technology	1203 <i>learning-based gait sequence prediction-assisted key event detection for foot kinematics/INS integrated positioning</i>	
Siyuan Chen	Nanjing Univ. of Science and Technology	Ping Zhang	Beijing Institute of Technology
Li Yang	Nanjing Univ. of Science and Technology	Zhihong Deng	Beijing Institute of Technology
08:08-08:16	A9.2	Wenhao Qi	Beijing Institute of Technology
116 <i>Inertial initial alignment method based on multi-depth temporal convolutional networks in GNSS-Denied</i>		Jiesi Dong	Beijing Institute of Technology
Hongxuan Che	Nanjing Univ. of Science and Technology	08:56-09:04	A9.8
Jinwen Wang	Nanjing Univ. of Science and Technology	1395 <i>Direction-enhanced attention for point cloud semantic segmentation in railway scenes</i>	
Jiachao Wu	Nanjing Univ. of Science and Technology	Qingchen Zhou	Nanjing Univ. of Science and Technology
Xian Wu	Nanjing Univ. of Science and Technology	Liu He	Nanjing Univ. of Science and Technology
08:16-08:24	A9.3	Li Yang	Nanjing Univ. of Science and Technology
159 <i>Kinematic benchmark driven body odometer for step parameters estimation in pedestrian dead reckoning</i>		Wei Zhou	Nanjing Univ. of Science and Technology
Zhe Li	Beijing Institute of Technology	09:04-09:12	A9.9
Sizhu Ren	Beijing Institute of Technology	1400 <i>RCPPO: Dynamic obstacle avoidance with spatiotemporal attention and topology-constrained reinforcement learning</i>	
Zhihong Deng	Beijing Institute of Technology	Chao Wan	Nanjing Univ. of Science and Technology
08:24-08:32	A9.4	Liu He	Nanjing Univ. of Science and Technology
261 <i>Attention-Guided fusion module for refining cross-view feature interaction in UAV localization</i>		Siyuan Chen	Nanjing Univ. of Science and Technology
Peng Wan	Nanjing Univ. of Science and Technology	Li Yang	Nanjing Univ. of Science and Technology
Yiyang Xu	Nanjing Univ. of Science and Technology	09:12-09:20	A9.10
Linfei Tian	Nanjing Univ. of Science and Technology	1747 <i>Deep learning-based full-temperature compensation method for damping non-uniformity drift in whole-angle mode hemispherical resonator gyroscopes</i>	
Yichen Wang	Nanjing Univ. of Science and technology	Haoqian Zhang	Tianjin Navigation Instrument Research Institute
Xiangyi Ma	Nanjing Univ. of Science and technology	Yuanyuan Shi	Tianjin Navigation Instrument Research Institute
Xiaomo Wen	Nanjing Univ. of Science and Technology	Songpu Yang	Tianjin Navigation Instrument Research Institute
08:32-08:40	A9.5	Chenkai Jia	Tianjin Navigation Instrument Research Institute
325 <i>LSTM-Enhanced system-level calibration for attitude determination in MEMS RMINS</i>		Chunlei Ding	Tianjin Navigation Instrument Research Institute
Ansheng Chen	Beihang Univ.	09:20-09:28	A9.11
Jianli Li	Beihang Univ.	278 <i>Design of a high-precision magnetic gradient control system for SERF gyroscopes based on LADRC</i>	
		Senhua Lei	Beihang Univ.
		Xusheng Lei	Beihang Univ.
		Zhihong Wu	Beihang Univ.
		Yanshen Huang	Beihang Univ.

Haoying Pang	Beihang Univ.	Shaolong Song	AVIC Xi'an Flight Automatic Control Research Institute
09:28-09:36	A9.12	Yuda Gao	AVIC Xi'an Flight Automatic Control Research Institute
1514 <i>A CAR and Multi-Lock MVMD-based denoising method for MCG signals</i>			
Runqi Pan	Beihang Univ.	08:16-08:24	A10.3
Xinxu Zhou	Beihang Univ.	217 <i>A localizer control method based on trajectory planning for civil aircraft</i>	
Wenlei Zhao	Beihang Univ.	Shenjiang Wang	COMAC Shanghai Aircraft Design and Research Institute
09:36-09:44	A9.13	Haonan Xu	COMAC Shanghai Aircraft Design and Research Institute
595 <i>From reactive safety to proactive reconfiguration: A geometric game-theoretic approach to safe UAV formation control</i>			
Shuxian Yang	Nanjing Univ. of Aeronautics and Astronautics	08:24-08:32	A10.4
Qingkai Meng	Nanjing Univ. of Aeronautics and Astronautics	378 <i>A comparative study of model order reduction algorithms for high-fidelity aeroelastic civil aircraft models</i>	
Hao Yang	Nanjing Univ. of Aeronautics and Astronautics	Shuo chang	COMAC Shanghai Aircraft Design and Research Institute
Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics	Yingchun Shen	COMAC Shanghai Aircraft Design and Research Institute
09:44-09:52	A9.14	08:32-08:40	A10.5
521 <i>Conic trajectory based adaptive terminal guidance strategy with impact angle constraints</i>			
Kaiyu Suo	AVIC Xi'an Flight Automatic Control Research Institute	685 <i>Design and simulation of AFCS flight level change mode control law for civil aircraft</i>	
Longzhen Hu	AVIC Xi'an Flight Automatic Control Research Institute	Weijie Lyu	COMAC Shanghai Aircraft Design and Research Institute
Xiaofeng Sun	AVIC Xi'an Flight Automatic Control Research Institute	Jiahao Zhang	COMAC Shanghai Aircraft Design and Research Institute
Erzhuo Niu	AVIC Xi'an Flight Automatic Control Research Institute	Chao Zhou	COMAC Shanghai Aircraft Design and Research Institute
Yu Fan	AVIC Xi'an Flight Automatic Control Research Institute	Zeyu Kang	COMAC Shanghai Aircraft Design and Research Institute
09:52-10:00	A9.15	08:40-08:48	A10.6
544 <i>A modeling and analysis method for UAV swarm air combat based on the lancaster equation</i>			
Xiaoguang Wang	Air Force Engineering Univ.	911 <i>Research on the voting mechanism for flight control systems utilizing triple-redundant flight management signals</i>	
Xiaoping Wang	Air Force Engineering Univ.	Ziyan Shao	COMAC Shanghai Aircraft Design and Research Institute
Hongbo Li	Air Force Engineering Univ.	Ziqin Xu	COMAC Shanghai Aircraft Design and Research Institute
A10		Chang Liu	COMAC Shanghai Aircraft Design and Research Institute
2nd Floor VIP Room 2		08:48-08:56	A10.7
Aircraft GNC		944 <i>Design of the control law for the Auto-Throttle speed mode based on speed guidance</i>	
2 层 贵宾厅 2		Chao Zhou	COMAC Shanghai Aircraft Design and Research Institute
Chairs: Zibo Wei		Jianwei Guo	COMAC Shanghai Aircraft Design and Research Institute
08:00-08:08	A10.1	Jing Xu	COMAC Shanghai Aircraft Design and Research Institute
821 <i>Robust control of morphing flight based on linear active disturbance rejection method</i>			
Jing Xu	COMAC Shanghai Aircraft Design and Research Institute	Jiahao Zhang	COMAC Shanghai Aircraft Design and Research Institute
Zeyu Kang	COMAC Shanghai Aircraft Design and Research Institute	Weijie Lyu	COMAC Shanghai Aircraft Design and Research Institute
Zibo Wei	COMAC Shanghai Aircraft Design and Research Institute	08:56-09:04	A10.8
Chao Zhou	COMAC Shanghai Aircraft Design and Research Institute	1153 <i>Analysis of glide path deviation signals and redundancy management for civil aircraft</i>	
08:08-08:16	A10.2	Chang Liu	COMAC Shanghai Aircraft Design and Research Institute
315 基于 FastLio2 与 2D 适配 EgoPlanner 的机器人激光雷达感知与运动规划算法工程实现			
Zitong Yang	AVIC Xi'an Flight Automatic Control Research Institute	Haonan Xu	COMAC Shanghai Aircraft Design

	and Research Institute	1716 <i>Safety Analysis and Design of a Stall Protection System Based on Simulink Modeling</i>	
Ziqin Xu	COMAC Shanghai Aircraft Design and Research Institute	Bei Liu	COMAC Shanghai Aircraft Design and Research Institute
09:04-09:12	A10.9	Zhaoliang Zhang	COMAC Shanghai Aircraft Design and Research Institute
1174 <i>An AFCS-based adaptive flare control method for civil aircraft CAT III autoland</i>		Kezhi Zhang	COMAC Shanghai Aircraft Design and Research Institute
Zeyu Kang	COMAC Shanghai Aircraft Design and Research Institute	Haowen Wu	Shanghai Aircraft Airworthiness Certification Center of CAAC
Peng Xie	COMAC Shanghai Aircraft Design and Research Institute	Yue Shen	Shanghai Aircraft Airworthiness Certification Center of CAAC
Zibo Wei	COMAC Shanghai Aircraft Design and Research Institute	09:52-10:00	A10.15
Chenyang Zhao	COMAC Shanghai Aircraft Design and Research Institute	453 <i>Research on UAV task allocation algorithm based on adaptive exploration D3QN</i>	
Haonan Xu	COMAC Shanghai Aircraft Design and Research Institute	Yingke Liu	Northwestern Polytechnical Univ.
Qiang Shen	Shanghai Jiao Tong Univ.	Zuo Li	Northwestern Polytechnical Univ.
09:12-09:20	A10.10	Yunpeng Cai	Northwestern Polytechnical Univ.
1181 <i>Research on the timing-threshold consistency design method for multiple monitors in civil aircraft fly-by-wire flight control systems</i>		Zongwei Chai	Northwestern Polytechnical Univ.
Zhengyu Xie	COMAC Shanghai Aircraft Design and Research Institute	Xiaoxiong Liu	Northwestern Polytechnical Univ.
Qi Chen	COMAC Shanghai Aircraft Design and Research Institute	A11	2nd Floor Beihai Room
Xiaomei Wang	COMAC Shanghai Aircraft Design and Research Institute	Best Paper	2 层 北海厅
09:20-09:28	A10.11	08:00-08:10	A11.1
1241 <i>Design of go-around guidance control law for civil aircraft based on fault adaptation and FPA constraint</i>		227 <i>Fault attribution for dual-redundant irs via adaptive multi-scale sprt</i>	
Runmu Yang	COMAC Shanghai Aircraft Design and Research Institute	Yuanmiao Niu	COMAC Shanghai Aircraft Design and Research Institute
Zibo Wei	COMAC Shanghai Aircraft Design and Research Institute	Kezhi Zhang	COMAC Shanghai Aircraft Design and Research Institute
Shenjiang Wang	COMAC Shanghai Aircraft Design and Research Institute	Haowen Wu	Shanghai Aircraft Airworthiness Certification Center of CAAC
09:28-09:36	A10.12	Yue Shen	Shanghai Aircraft Airworthiness Certification Center of CAAC
1418 <i>Distributed flight control system design based on multi-agent technology</i>		Zhaoliang Zhang	COMAC Shanghai Aircraft Design and Research Institute
Hongyan Hu	COMAC Shanghai Aircraft Design and Research Institute	08:10-08:20	A11.2
Peng Zhao	COMAC Shanghai Aircraft Design and Research Institute	1060 <i>Dual-Arm drive-control system for an embodied intelligent pilot: spherical arc task mapping, base design, and closed-loop flight simulation verification</i>	
09:36-09:44	A10.13	Zhipeng Sun	AVIC First Aircraft Design and Research Institute
1487 <i>Sensitivity analysis of automatic landing systems based on random forest</i>		Bonan Yuan	AVIC First Aircraft Design and Research Institute
Qinyu Wei	COMAC Shanghai Aircraft Design and Research Institute	Rong Ma	AVIC First Aircraft Design and Research Institute
Jianfeng Miao	COMAC Shanghai Aircraft Design and Research Institute	Dihong Pan	AVIC First Aircraft Design and Research Institute
Haonan Xu	COMAC Shanghai Aircraft Design and Research Institute	Kaihao Wen	AVIC First Aircraft Design and Research Institute
Kaiyu LI	COMAC Shanghai Aircraft Design and Research Institute	08:20-08:30	A11.3
Zeyu Kang	COMAC Shanghai Aircraft Design and Research Institute	1339 <i>Closed-Loop performance assessment and generalized importance measure under multi-source uncertainty: A case study on electro-hydrostatic actuator</i>	
09:44-09:52	A10.14	Rentong Chen	Beihang Univ.
		Pengcheng Ren	Beihang Univ.
		Yuwei Zhang	Beihang Univ.
		Chao Zhang	Beihang Univ.

Xingjian Wang	Beihang Univ.	Encheng Dai	Rocket Force Univ. of Engineering
Rui Mu	Beihang Univ.	Guangbin Cai	Rocket Force Univ. of Engineering
Shaoping Wang	Beihang Univ.	Hui Xu	Rocket Force Univ. of Engineering
08:30-08:40	A11.4	Hao Wei	Rocket Force Univ. of Engineering
1357 Enhancing LVI-SAM for ground vehicles with ground-aware vertical correction and scan context-based loop closure		Yonghua Fan	Northwestern Polytechnical Univ.
Guochen Niu	Civil Aviation Administration of China	10:00-10:10	A11.12
Yuchen Liu	Civil Aviation Univ. of China	744 基于最短路径树的多分支线缆布线优化方法	
Dandan Hu	Civil Aviation Univ. of China	Chenxi Wang	National Univ. of Defense Technology
08:40-08:50	A11.5	Xianqi Chen	Chinese Academy of Military Science
146 基于通用障碍函数的无拖曳航天器姿轨耦合自适应约束控制		Yufeng Xia	Chinese Academy of Military Science
Haoyu Zheng	Nanjing Univ. of Aeronautics and Astronautics	Weien Zhou	Chinese Academy of Military Science
Xiaoyun Sun	Nanjing Univ. of Aeronautics and Astronautics	Wen Yao	Chinese Academy of Military Science
Shufan Wu	Shanghai Jiao Tong Univ.	10:10-10:20	A11.13
08:50-09:00	A11.6	780 Distributed online aggregative optimization using mirror descent	
281 A partial-perception-driven three-layer formation framework for UAV swarm		Kunpeng Zhang	Northeastern Univ.
Jiamin Jin	City Univ. of Macau	Lei Xu	KTH Royal Institute of Technology
Wei Yu	City Univ. of Macau	Xinlei Yi	Tongji Univ.
Wendi Zhan	Sun Yat-sen Univ.	Ming Cao	Univ. of Groningen
Jingyi Li	City Univ. of Macau	Karl H. Johansson	KTH Royal Institute of Technology
09:00-09:10	A11.7	Tianyou Chai	Northeastern Univ.
388 Three-dimensional elliptical multi-orbit enclosing: a control framework for UAVs		Tao Yang	Northeastern Univ.
Zhen Wang	Northeastern Univ.	10:20-10:30	A11.14
Shunwei Hu	Northeastern Univ.	928 Attitude estimation using angular accelerometer via deep learning-based denoising	
Fanghua Tang	Northeastern Univ.	Chaoyang Zhai	Beijing Institute of Technology
Yanhong Luo	Northeastern Univ.	Meiling Wang	Beijing Institute of Technology
09:10-09:20	A11.8	Zexuan Zhou	Beijing Institute of Technology
470 Bio-inspired distributed synchronization control for UAV swarm via pigeon flock splitting interaction		Renjie Li	Beijing Institute of Technology
Zhaoyu Zhang	Beihang Univ.	10:30-10:40	A11.15
Haibin Duan	Beihang Univ.	963 From convex safe corridors to smooth virtual tubes: a geometry-aware framework for multi-robot cooperative navigation	
Yongqiong Yuan	China Electronics Technology Group Corporation	Yusheng Lu	Dalian Maritime Univ.
Chen Wei	Beihang Univ.	YanJun Liu	Liaoning Univ. of Technology
09:20-09:30	A11.9	Shu Li	Liaoning Univ. of Technology
668 Interactive disentangled representation learning for robust SAR-optical remote sensing image retrieval		Dapeng Li	Liaoning Univ. of Technology
Peiyuan Ma	Northwestern Polytechnical Univ.	10:40-10:50	A11.16
Yimin Fu	Northwestern Polytechnical Univ.	996 Hierarchical fault-tolerant control for unmanned helicopters: a distributed solution with global nash equilibrium	
Zhunga Liu	Northwestern Polytechnical Univ.	Wenjie Jiang	Nanjing Univ. of Aeronautics and Astronautics
Songbo Wang	Northwestern Polytechnical Univ.	Bingxiang Liao	Nanjing Univ. of Aeronautics and Astronautics
09:30-09:40	A11.10	Yuhang xu	Nanjing Univ. of Aeronautics and Astronautics
688 Deep reinforcement learning for aircraft turnaround scheduling with heterogeneous resources constraints		Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics
Yixuan Fan	Tsinghua Univ.	10:50-11:00	A11.17
Haixu Li	Tsinghua Univ.	1131 Composite anti-disturbance strategy of adaptive extended kalman filter and tube-based model predictive control for UAV trajectory tracking	
Mengqiao Liu	Tsinghua Univ.	Jiarui Chen	South China Univ. of Technology
Tao Xue	Tsinghua Univ.	Hailong Pei	South China Univ. of Technology
Tao Zhang	Tsinghua Univ.	11:00-11:10	A11.18
09:40-09:50	A11.11	1137 A blockchain-integrated C-SLAM framework for multi-robot systems	
736 Adaptive reentry guidance for hypersonic vehicles in no-fly zones via reinforcement learning			

Wei Yue	Zhejiang Univ.	Weijia Chen	Shandong Univ.
Chengcheng Zhao	Zhejiang Univ.	Jingtao Shi	Shandong Univ.
Peng Cheng	Zhejiang Univ.	08:00-10:00	A12.3
11:10-11:20	A11.19	262 Cooperative trajectory planning for aerial refueling via adaptive sequential convex optimization	
1228 A distributed event-triggered reinforcement learning approach for containment control of heterogeneous multi-agent systems		Zimeng Wu	Northwestern Polytechnical Univ.
Mengna Quan	Guangxi Normal Univ.	Zhuoyi Wang	Northwestern Polytechnical Univ.
Shanlin Sun	Guilin Univ. of Aerospace Technology	Su Yang	Northwestern Polytechnical Univ.
Shike Long	Guilin Univ. of Aerospace Technology	Yaohong Qu	Northwestern Polytechnical Univ.
11:20-11:30	A11.20	08:00-10:00	A12.4
1242 A weighted intelligent encirclement method based on reinforcement learning for multiple pursuers under complex environments		360 EKOA:一种用于无人机三维航迹规划的高效开普勒优化算法	
Wendixin Lai	Kunming Univ. of Science and Technology	Hao Yang	AVIC Chengdu Aircraft Design and Research Institute
Chunxi Yang	Kunming Univ. of Science and Technology	Zhaoxu Yang	AVIC Chengdu Aircraft Design and Research Institute
Xiufeng Zhang	Kunming Univ. of Science and Technology	Chenggang Tao	AVIC Chengdu Aircraft Design and Research Institute
Jing Na	Kunming Univ. of Science and Technology	TianCai Wan	AVIC Chengdu Aircraft Design and Research Institute
Jiande Wu	Yunnan Univ.	08:00-10:00	A12.5
11:30-11:40	A11.21	383 Disturbance-resilient formation control of multi-UAVs based on barrier function	
1252 Continuous-time monte carlo tree search with physical priors and event-driven replanning for multi-agent multi-target interception		Ruian Wang	Shandong Univ. of Aeronautics
Yuhao Yan	Harbin Institute of Technology	Tong Mei	Shandong Univ. of Aeronautics
Xinran Zhang	Harbin Institute of Technology	Wei Hao	Shandong Univ. of Aeronautics
Zhaochen Lin	Harbin Institute of Technology	Bin Zhang	Shandong Univ. of Aeronautics
Tianyu Zheng	Harbin Institute of Technology	Wenlai Ma	Shandong Univ. of Aeronautics
Yu Yao	Harbin Institute of Technology	08:00-10:00	A12.6
Fenghua He	Harbin Institute of Technology	402 Non-singular Incremental fault-tolerant control for aircraft with adjustable predefined-time convergence performance	
11:40-11:50	A11.22	Shan Huang	Northwestern Polytechnical Univ.
1553 MALHA: Language-guided hierarchical coordination for multi-agent systems		Yihua Hu	Aviation Industry Development Research Center of China
Weihao Zhang	Univ. of Chinese Academy of Science	Jiahang Lai	AVIC Xi'an Flight Automatic Control Research Institute
Zhiqiang Pu	Univ. of Chinese Academy of Science	Jingping Shi	Northwestern Polytechnical Univ.
Yuan Wang	Univ. of Chinese Academy of Science	Yongxi Lyu	Northwestern Polytechnical Univ.
Chengjie Sun	Harbin Institute of Technology	Zhihui Du	Northwestern Polytechnical Univ.
Xiaolin Ai	Univ. of Chinese Academy of Science	08:00-10:00	A12.7
Min Chen	Univ. of Chinese Academy of Science	418 Observer-augmented transformer-based model predictive control for quadrotor trajectory tracking	
A12	2nd Floor Aisel	Haining Zhao	Hefei Univ. of Technology
Poster Session	2 层连廊厅	Tao Wang	Hefei Univ. of Technology
Chairs: Xiaoran Li		Pengfei Li	Univ. of Science and Technology of China
08:00-10:00	A12.1	Jian Di	Univ. of Science and Technology of China
149 Research of high-dimensional multi-objective vehicle-to-everything task offloading control under dynamic constraint scenarios		Yu Kang	Hefei Univ. of Technology
Qian Wang	Taiyuan Univ. of Science and Technology	08:00-10:00	A12.8
Jingbo Zhang	Taiyuan Univ. of Science and Technology	439 VCMM-GS: Visual-centric multi-modal Gaussian SLAM for outdoor environments	
Tianhao Zhao	Taiyuan Univ. of Science and Technology	Jiachen Wang	HongKong Univ. of Science and Technology (Guangzhou)
Linjie Wu	Taiyuan Univ. of Science and Technology	Haoang Li	Hong Kong Univ. of Science and Technology (Guangzhou)
Xin Mao	Taiyuan Univ. of Science and Technology	08:00-10:00	A12.9
Zhihua Cui	Taiyuan Univ. of Science and Technology	499 A variable mode yaw control method to improve the resistance to lateral disturbances during landing	
08:00-10:00	A12.2	Kezhi Zhang	Shanghai Aircraft Design &
207 Leader-Follower linear-quadratic stochastic graphon games			

	Research Institute		Research Institute
Hui Shao	Shanghai Aircraft Design & Research Institute	Guofei Li	Northwestern Polytechnical Univ.
Xiaochun Zhang	Shanghai Aircraft Design & Research Institute	08:00-10:00	A12.15
Haowen Wu	Shanghai Aircraft Airworthiness Certification Center of CAAC	796 Hierarchical nested game-based orbital encirclement: reachable domain and closed-loop multi-stage design approach	
Ji Liu	Shanghai Aircraft Design & Research Institute	Shuyu Yang	Shanghai Univ.
08:00-10:00	A12.10	Zhipeng Wang	Shanghai Univ.
507 Research on a dynamic early-warning model for multi-ship encounter risk based on spatio-temporal graph neural networks		Jing Zhao	Shanghai Microsate Engineering Center
Jinhan Li	Harbin Engineering Univ.	Chun Liu	Shanghai Univ.
Enjiao Zhao	Harbin Engineering Univ.	08:00-10:00	A12.16
Yuxin Zhao	Harbin Engineering Univ.	887 Disturbance compensated model predictive iterative learning control for flexible air-breathing hypersonic vehicles	
Deng Xiong	Harbin Engineering Univ.	Honglin Liu	Dalian Univ. of Technology
08:00-10:00	A12.11	Ming Li	Dalian Univ. of Technology
519 Set-membership filter based adaptive tube MPC for quadrotor trajectory tracking		Guan Wang	Dalian Univ. of Technology
Xingxing Zhou	National Univ. of Defense Technology	Kai Liu	Dalian Univ. of Technology
Ze Sun	73159 Unit	08:00-10:00	A12.17
Shuo Zhang	National Univ. of Defense Technology	1030 Event-triggered adaptive sliding-mode fault-tolerant tracking control of multi-UAVs	
Yirui Cong	National Univ. of Defense Technology	Wenjing Chai	Nanjing Univ. of Aeronautics and Astronautics
08:00-10:00	A12.12	Ziquan Yu	Nanjing Univ. of Aeronautics and Astronautics
572 A method for cooperative air combat positioning based on trajectory prediction		Youmin Zhang	Concordia Univ.
Yeguang Wang	AVIC Shenyang Aircraft Design and Research Institute	08:00-10:00	A12.18
Zhigang Wang	AVIC Shenyang Aircraft Design and Research Institute	1359 Disturbance rejection control for a Ducted-Fan UAV using priority-enhanced INDI	
Yibo Zheng	Northwestern Polytechnical Univ.	Qingxi Tang	Guangdong Univ. of Technology
Bin Zhao	AVIC Shenyang Aircraft Design and Research Institute	Yong Xu	Guangdong Univ. of Technology
Ning Wang	AVIC Shenyang Aircraft Design and Research Institute	Zihuan Cheng	Guangdong Univ. of Technology
08:00-10:00	A12.13	Chaoheng Meng	South China Univ. of Technology
678 Self-tuning bi-copter motion control: Real-time CG estimation and dynamic allocation for unstructured payloads		08:00-10:00	A12.19
Qidi Wang	Beihang Univ.	1477 A collaborative optimization method for build-in and external test of complex systems based on testability Indicator constraints	
Xinglu Xia	Beihang Univ.	Liang Qin	Naval Aviation Univ.
Zizhuo Cai	Beihang Univ.	Yufeng Qin	Naval Aviation Univ.
Zichun Guo	Beihang Univ.	Xiuzhen Wu	Naval Aviation Univ.
Yiyu Wang	Beihang Univ.	08:00-10:00	A12.20
Zhiheng Dai	Beihang Univ.	1503 UAVs formation control based on dynamic virtual tube generation	
Yingjian Xu	Beihang Univ.	Zihui Liu	Guangxi Univ.
Pei Chi	Beihang Univ.	Zeyu Tang	Guilin Univ. of Aerospace Technology
Yingxun Wang	Beihang Univ.	Shike Long	Guilin Univ. of Aerospace Technology
08:00-10:00	A12.14	Yongjun Wang	Guilin Univ. of Aerospace Technology
695 Cooperative guidance law for multiple aircraft based on multi-agent consistency theory		Shanlin Sun	Guilin Univ. of Aerospace Technology
Yilun Huangfu	Xi'an Modern Control Technology Research Institute	08:00-10:00	A12.21
Haochun Miao	Xi'an Modern Control Technology research institute	1509 An adaptive control with powertrain time constant estimation for asymmetric-dynamics vehicle platoons	
Jinping Li	Xi'an Modern Control Technology research institute	Ye Zhang	Southeast Univ.
Haipeng Deng	Xi'an Modern Control Technology	Yu Feng	Southeast Univ.
		Haibin He	Southeast Univ.
		Wenying Xu	Southeast Univ.
		08:00-10:00	A12.22
		1558 A method of manned/unmanned intelligent cooperative air combat based on multi-agent situation awareness	

Shangrongxi Sun	Fudan Univ.	communication satellites: A review	
Ye Wang	Fudan Univ.	Yifan Wu	Beijing Ingstitute of Control Engineering
Shuo Cui	Fudan Univ.	Jiang Liu	Beijing Ingstitute of Control Engineering
Yiming Wang	Fudan Univ.	Fengjun Guo	Beijing Ingstitute of Control Engineering
Jianliang Ai	Fudan Univ.	08:00-10:00	A12.31
08:00-10:00	A12.23	1686 Risk-aware UAV path planning with GMM-Based uncertainty modeling and trajectory optimization	
204 Evolution of machine learning-driven intelligent positioning algorithms		Rui Du	Southeast Univ.
Yifan Zhao	Hunan Institute of Engineering	Kelin Lu	Southeast Univ.
Ziwei Huang	Hunan Institute of Engineering	08:00-10:00	A12.32
Xiangling Luo	Hunan Institute of Engineering	1749 On-orbit security protection technology	
Jingmei Wang	Hunan Institute of Engineering	Geng Jie	Beijing Institute of Control Engineering
08:00-10:00	A12.24	08:00-10:00	A12.33
294 线加速度计试验国家军用标准修订建议浅析		312 双轴离心机在惯性仪表复合矢量测试中的应用分析	
Wei Guan	State-owned Changhong Machinery Factory	Wei Guan	State-owned Changhong Machinery Factory
Sulong Wu	State-owned Changhong Machinery Factory	Yuxuan Zou	State-owned Changhong Machinery Factory
Xuefeng Zeng	State-owned Changhong Machinery Factory	Quangui Zhou	State-owned Changhong Machinery Factory
Yajun He	State-owned Changhong Machinery Factory	Yuqiao Zhou	State-owned Changhong Machinery Factory
Yuxuan Zou	State-owned Changhong Machinery Factory	Zhikai Yang	State-owned Changhong Machinery Factory
08:00-10:00	A12.25	08:00-10:00	A12.34
303 Research on independent innovation pathways for TAWS from the perspective of patent analysis		486 A review of typical application scenarios for active sticks	
Fei Xue	COMAC Shanghai Aircraft Design and Research Institute	Heming Dang	Chinese Flight Test Establishment
08:00-10:00	A12.26	08:00-10:00	A12.35
407 On the application of deep reinforcement learning in UAV swarm control		5 Nonlinear homotopy-penalty interior-point method for six-DoF powered landing guidance	
Jianping Yu	AVIC First Aircraft Design and Research Institute	Kai Chen	Zhejiang Univ.
Yuxiang Tang	AVIC First Aircraft Design and Research Institute	Lorenz T. Biegler	Carnegie Mellon Univ.
Kexin Li	AVIC First Aircraft Design and Research Institute	Zhijiang Shao	Zhejiang Univ.
08:00-10:00	A12.27	08:00-10:00	A12.36
460 Control of electric vertical take-off and landing aircraft: developments and prospects		10 Research on composite control strategies for electro-hydrostatic actuators	
Xv Wang	Xiamen Univ.	Lei Fan	AVIC First Aircraft Design and Research Institute
Shaoping Shen	Xiamen Univ.	Yong Yang	AVIC First Aircraft Design and Research Institute
Zhibin Li	Shandong Univ. of Science and Technology	Shuai Cao	AVIC First Aircraft Design and Research Institute
08:00-10:00	A12.28	Yitao Huang	AVIC First Aircraft Design and Research Institute
767 A review on autonomous navigation and planetary physical field parameter estimation for Ice giant exploration missions		08:00-10:00	A12.37
Runyi Liu	Univ. of Chinese Academy of Sciences	83 多余度液压舵机系统中电流偏差抑制的参数协同控制策略	
Peng Han	Univ. of Chinese Academy of Sciences	ErFeng Su	AVIC Xi'an Flight Automatic Control Research Institute
Dong Gao	Univ. of Chinese Academy of Sciences	ShaoYang Dong	AVIC Xi'an Flight Automatic Control Research Institute
08:00-10:00	A12.29	Longhui Yao	AVIC Xi'an Flight Automatic Control Research Institute
1517 A review of critical technologies in electric propulsion motor control		08:00-10:00	A12.38
Weiping Yang	AVIC Xi'an Flight Automatic Control Research Institute	153 Design of precise guidance law based on adaptive sliding mode and latitude and longitude	
Xiaopeng Zhao	AVIC Xi'an Flight Automatic Control Research Institute	Xueqing Zhang	Shanghai Spaceflight Precision Machinery Institute
Zhangjun Sun	AVIC Xi'an Flight Automatic Control Institute	Changxing Shao	Shanghai Aerospace Precision Machinery Institute
08:00-10:00	A12.30	Weixiao Wu	Shanghai Spaceflight Precision Machinery Institute
1643 Micro-vibration noise control technologies for laser			

Mohan Zhao	Shanghai Spaceflight Precision Machinery Institute	Yadong Liu	Hebei Univ. of Science and Technology
MengCheng Zhu	Shanghai Aerospace Precision Machinery Institute	Canyang Zhao	Hebei Univ. of Science and Technology
08:00-10:00	A12.39	Ning Zhou	Hebei Univ. of Science and Technology
182 <i>Predefined-time sliding mode control for aircraft attitude with actuator dynamics</i>		Bing Cui	Beijing Institute of Technology
Yikun Wei	Xidian Univ.	Guang Yang	Hebei Univ. of Science and Technology
Suiping Zhou	Xidian Univ.	Tiejun Li	Hebei Univ. of Science and Technology
Jiahao Gan	AVIC Chengdu Aircraft Design and Research Institute	08:00-10:00	A12.48
08:00-10:00	A12.40	1023 <i>Data-driven stabilization of continuous-time linear systems via the matrix S-lemma</i>	
229 含输入时延的不确定非线性系统有限时间自适应智能控制		Yuhao Chen	Beihang Univ.
Gang Xu	Weifang Vocational College	Jiang Zhao	Beihang Univ.
Honghong Wang	Qingdao Univ.	Yingxun Wang	Beihang Univ.
Kai Wang	Qingdao Univ.	Pei Chi	Beihang Univ.
08:00-10:00	A12.41	08:00-10:00	A12.49
247 <i>Research on stepper motor selection and adaptive PID control for the CSNS-II stripper foil system</i>		1079 基于预定义时间滑模的高超声速飞行器鲁棒姿态控制	
YiCong Chen	Dongguan Univ. of Technology	Jiawei Wen	Nanjing Univ. of Aeronautics and Astronautics
Xuan Wu	Spallation Neutron Source Science Center	Ben Yang	Nanjing Univ. of Aeronautics and Astronautics
Yi Qin	Dongguan Univ. of Technology	Boyi Chen	Nanjing Univ. of Aeronautics and Astronautics
08:00-10:00	A12.42	Yanbin Liu	Nanjing Univ. of Aeronautics and Astronautics
269 <i>Nonlinear data driven control using optimal weight strategy</i>		Jinbao Chen	Nanjing Univ. of Aeronautics and Astronautics
Tingting Bai	Army engineering Univ. of PLA	08:00-10:00	A12.50
Jianhong Wang	Jiangxi Univ. of Science and Technology	1101 <i>Integrated target-vision-servo modeling and disturbance observer-based composite control for optoelectronic platforms</i>	
08:00-10:00	A12.43	Huyi Peng	Beihang Univ.
603 <i>Sliding mode control with actuator lag and dead-zone compensation for nonlinear flight control systems</i>		Baopeng Zhu	Southeast Univ.
JiaHui Zhang	Beijing Institute of Technology	Yukai Zhu	Beihang Univ.
Qiuqiu Wen	Beijing Institute of Technology	Weipeng Li	Beihang Univ.
Zhen Chen	Beijing Institute of Technology	Lu Wang	Changchun Institute of Optics, Fine Mechanics and Physics
Yuxiang Chang	Beijing Institute of Technology	08:00-10:00	A12.51
Junjie Ai	Beijing Institute of Technology	1112 <i>Mechanism-data-driven whole-body cooperative optimization control for mobile manipulators</i>	
08:00-10:00	A12.44	Keming Chen	Beijing Univ. of Technology
640 <i>PPO-ESO parameter tuning method for tracking control of hypersonic flight vehicles</i>		Yanting Huang	Beijing Univ. of Technology
Xu Wang	Rocket Army Engineering Univ.	Honggui Han	Beijing Univ. of Technology
GuangBin Cai	Rocket Army Engineering Univ.	Kang Gao	China Electronics Technology Group Corporation
Yonghua Fan	Northwestern Polytechnical Univ.	08:00-10:00	A12.52
Xuen Fan	Rocket Army Engineering Univ.	1253 <i>Learning-based optimal guidance with predictive uncertainty estimation</i>	
08:00-10:00	A12.45	Haoran Ma	Zhejiang Univ.
718 <i>Data-driven actor-critic-identifier control for non-affine nonlinear systems under asymmetric time-varying constraints</i>		Zheng Chen	Zhejiang Univ.
Sibo Huang	Beijing Univ. of Technology	08:00-10:00	A12.53
Yanting Huang	Beijing Univ. of Technology	1321 <i>Backstepping super-twisting sliding mode control based on neural network disturbance observer</i>	
Tian Chen	Beihang Univ.	Yang Zhao	Beijing Aerospace Technology Institute
08:00-10:00	A12.46	Xu Zha	Beijing Aerospace Technology Institute
722 <i>Adaptive prescribed performance tracking control of reusable launch vehicle with input delay</i>		Zhiyi Lu	Beijing Aerospace Technology Institute
Xiaowei Yu	Beijing Univ. of Technology	Junyong Sun	Beijing Aerospace Technology Institute
Xiaoli Li	Beijing Univ. of Technology	08:00-10:00	A12.54
08:00-10:00	A12.47	1377 <i>GPR-enhanced MPC for multirotor UAV control under wind disturbance</i>	
822 <i>Adaptive fault-tolerant control design for MIMO nonlinear systems under mixed faults and output constraints</i>		Ao Li	Beihang Univ.
		Xin Dong	Beihang Univ.
		Dawei Bie	Beihang Univ.
		Zhan Tu	Beihang Univ.
		DaoChun Li	Beihang Univ.

08:00-10:00	A12.55	Wenhao Tian	Army Engineering Univ.
1443 <i>A forward-backward second-order method for finite-horizon nonlinear control with symmetrically coupled inputs</i>		08:00-10:00	A12.61
Xiaoqian Li	Taishan Univ.	1657 <i>Prescribed-performance fault tolerant control for non-cooperative spacecraft rendezvous based on fully actuated approach</i>	
Zhaozhen Zhan	Power Cable Division	Ruining Yuan	Harbin Institute of Technology
Shufen Zhao	Taishan Univ.	Zunhao Yao	Harbin Institute of Technology
Zonglei Jing	Beihang Univ.	Yuchen Ma	Harbin Institute of Technology
Peijun Ju	Taishan Univ.	Ming Liu	Harbin Institute of Technology
Shen Zhang	Taishan Univ.	08:00-10:00	A12.62
08:00-10:00	A12.56	1730 <i>Prescribed-time attitude tracking control for quadrotor UAVs under measurement noises</i>	
1489 <i>Research on attitude control of quadrotor unmanned aerial vehicle combining sliding mode control with flightgear Simulation</i>		Shuai Liang	Xi'an Univ. of Technology
Jianqi Wang	Guilin Univ. of Aerospace Technology	Kangxuan Lv	Xi'an Univ. of Technology
Jian chen	Guilin Univ. of Aerospace Technology Guilin	Yankai Li	Xi'an Univ. of Technology
Shengtao Long	Guilin Univ. of Electronic Technology	08:00-10:00	A12.63
Su Wang	City Univ. of Macau	1737 <i>Investigation on discrete-time human-in-the-loop adaptive control approach for carrier-based aircraft</i>	
Dongmei Wang	Guilin Univ. Of Aerospace Technology	Xuxiao Chen	Nanjing Univ. of Aeronautics and Astronautics
Yang Li	Guilin Univ. of Aerospace Technology	Xiaoyun Sun	Nanjing Univ. of Aeronautics and Astronautics
08:00-10:00	A12.57	Xinhua Wang	Nanjing Univ. of Aeronautics and Astronautics
1508 <i>Iterative learning adaptive control barrier functions for consensus in multi-agent systems with unknown dynamics</i>		08:00-10:00	A12.64
Lili Chen	Liaoning Univ. of Technology	1742 <i>Robust flight control and uncertainty robustness assessment for fixed-wing aircraft</i>	
Qiang Zeng	Liaoning Univ. of Technology	Qingyuan Ma	AVIC Shenyang Aircraft Design and Research Institute
Yan-Jun Liu	Liaoning Univ. of Technology	Chuang He	AVIC Shenyang Aircraft Design and Research Institute
08:00-10:00	A12.58	Dongdong Guan	Northeastern Univ.
1529 <i>A robust adaptive attitude control for hypersonic vehicles based on wavelet neural network disturbance observer</i>		Xiaoyang He	AVIC Shenyang Aircraft Design and Research Institute
Xiaobin Hao	Shanghai Dianji Univ.	08:00-10:00	A12.65
Liang Zhu	Shanghai Dianji Univ.	210 <i>Research on robust aerodynamic parameter identification of aircraft based on AT-LSTM</i>	
Xichao Wang	Shanghai Dianji Univ.	Yuewen Wang	Northwestern Polytechnical Univ.
Zheng Zhang	Shanghai Dianji Univ.	Kecheng Li	Northwestern Polytechnical Univ.
Lei Yang	Shanghai Dianji Univ.	Hongwu Xu	Northwestern Polytechnical Univ.
08:00-10:00	A12.59	Xiaoxiang Hu	Northwestern Polytechnical Univ.
1563 <i>Event-triggered safe control of input-constrained unknown nonlinear systems</i>		08:00-10:00	A12.66
Pengcheng Zhang	Hebei Univ. of Science and Technology	1046 <i>Byzantine-resilient remote set-membership filtering for cyber-physical systems: an amplify-and-forward relay-aided mechanism</i>	
Haomai Cui	Hebei Univ. of Science and Technology	Jinliao Yan	Hangzhou Dianzi Univ.
Dong Xue	East China Univ. of Science and Technology	Xueyang Meng	Hangzhou Dianzi Univ.
Lele Xi	Hebei Univ. of Science and Technology	Jiaqing Xu	Hangzhou Dianzi Univ.
Ning Zhou	Hebei Univ. of Science and Technology	Xiongding ·Liu	Hangzhou Dianzi Univ.
08:00-10:00	A12.60	08:00-10:00	A12.67
1581 <i>Research on guidance law with impact angle constraints for maneuvering targets based on equivalent-input-disturbance approach</i>		1109 <i>Robust in-motion coarse alignment for SINS aided by GNSS</i>	
Yuanhang Chai	Army Engineering Univ.	Yong Liu	Harbin Institute of Technology
Xiwei Guo	Army Engineering Univ.	Fei Yu	Harbin Institute of Technology
Jiaheng Wei	Army Engineering Univ.	Ya Zhang	Harbin Institute of Technology
		Zhijiang Yuan	Harbin Institute of Technology
		08:00-10:00	A12.68

1119 恒定通风输入下飞机货舱烟雾流场的 *DMD* 与 *DMDc* 建模方法对比研究

Jianzhong Yang	Civil Aviation Univ. of China
Yujia Huang	Civil Aviation Univ. of China
Xiyuan Chen	Civil Aviation Univ. of China

08:00-10:00	A12.69
-------------	--------

1480 *A sliding mode state observer based on adaptive prescribed performance constraints*

Yangxin Liu	Beijing Institute of Technology
Fangzhou Jia	Beijing Institute of Technology
Qunli Xia	Beijing Institute of Technology

08:00-10:00	A12.70
-------------	--------

1676 *Design of anti-disturbance control for high-precision turntable with flexible transmission*

Yigong Zhang	Graduate School of Chinese Aeronautical Establishment
--------------	---

08:00-10:00	A12.71
-------------	--------

324 *Multi-source evidential deep learning for imbalanced open-set fault diagnosis of aero-engines*

Peng Han	Nanjing Univ. of Aeronautics and Astronautics
Zhiqiu Huang	Nanjing Univ. of Aeronautics and Astronautics

08:00-10:00	A12.72
-------------	--------

652 *WK-DMN: A physics-guided dynamic multi-scale network in the autocorrelation lag domain for robust condition monitoring of rolling element bearings*

Wei Quan	Xi'an Univ. of Technology
Yongle Jia	Xi'an Univ. of Technology

08:00-10:00	A12.73
-------------	--------

779 *Construction of knowledge graph for aircraft fault diagnosis*

Xiuxia Yang	Naval Aviation Univ.
Kanxin Feng	Harbin Engineering Univ.

08:00-10:00	A12.74
-------------	--------

816 基于混合专家信号—语义桥接的伺服机构故障诊断方法

QiYi Zhang	Nanjing Univ. of Aeronautics and Astronautics
YueHua Cheng	Nanjing Univ. of Aeronautics and Astronautics
WeiGang Hu	Beijing Control and Electronics Technology Institute
YuanHang Deng	Nanjing Univ. of Aeronautics and Astronautics
WeiDong Shi	Nanjing Univ. of Aeronautics and Astronautics

08:00-10:00	A12.75
-------------	--------

960 *Design of power-on BIT for triple-lane flight control computer*

Jianhui Han	COMAC Shanghai Aircraft Design and Research Institute
Mingfeng Zhang	COMAC Shanghai Aircraft Design and Research Institute
Zhishuai Tang	COMAC Shanghai Aircraft Design and Research Institute
Xinghua Liu	COMAC Shanghai Aircraft Design and Research Institute
Hairong Shen	COMAC Shanghai Aircraft Design and Research Institute

08:00-10:00	A12.76
-------------	--------

1005 *Simulation study on fault-tolerant mechanism for TTE and TSN converged networks based on dynamic adaptive switching*

Ruiyang Ban	AVIC Shenyang Aircraft Design and Research Institute
Dong Zhang	AVIC Shenyang Aircraft Design and Research Institute
Weize Shang	AVIC Shenyang Aircraft Design and Research Institute
Huasong Li	AVIC Shenyang Aircraft Design and Research Institute
Tianzhen Liang	AVIC Shenyang Aircraft Design and Research Institute

08:00-10:00	A12.77
-------------	--------

1191 *A feature-enhanced intelligent fault diagnosis method for unmanned helicopters*

Darui Qi	Anhui Polytechnic Univ.
Li Guo	Anhui Polytechnic Univ.
Yongjian Liu	Huaxia Yuntian Aircraft Engine Maintenance Co., Ltd
Runze Li	Anhui Polytechnic Univ.
Yansong Wang	Anhui Polytechnic Univ.

08:00-10:00	A12.78
-------------	--------

1511 *Multivariate time series imputation based on multi-scale consistent diffusion model for electric submersible pump*

Liangcheng Wang	China Univ. of Petroleum (Beijing)
Kang Li	China Univ. of Petroleum (Beijing)
Xiaoyong Gao	China Univ. of Petroleum (Beijing)
Chaodong Tan	China Univ. of Petroleum (Beijing)

08:00-10:00	A12.79
-------------	--------

1630 *Unsupervised anomaly detection for flotation froth images based on deep feature representation*

Xuecong Fan	North China Univ. of Science and Technology
Weiming Tian	North China Univ. of Science and Technology
Shuai He	North China Univ. of Science and Technology
Shihong Han	North China Univ. of Science and Technology
Yuzhuo Yao	North China Univ. of Science and Technology
Zhiqiang Wang	North China Univ. of Science and Technology

08:00-10:00	A12.80
-------------	--------

1739 *Incremental learning-based fault-tolerant adaptive control for unmanned aerial vehicle*

Yupei Zhang	Nanjing Univ. of Aeronautics and Astronautics
Xiaoyun Sun	Nanjing Univ. of Aeronautics and Astronautics
Xinhua Wang	Nanjing Univ. of Aeronautics and Astronautics

08:00-10:00	A12.81
-------------	--------

1745 *Research on quality improvement of limit cycle for aviation two-stage DDV actuator based on DMAIC*

Lizhi Wang	AVIC Xi'an Flight Automatic
------------	-----------------------------

Longfei Liu	Control Research Institute AVIC Xi'an Flight Automatic Control Research Institute	Jie Wen	Taiyuan Univ. of Science and Technology
Weitong Zheng	AVIC Xi'an Flight Automatic Control Research Institute	08:00-10:00	A12.89
Ruofan Li	AVIC Xi'an Flight Automatic Control Research Institute	340 <i>Anchor-gated neural adaptive kernel density estimation</i>	
Yaozhong Xu	AVIC Xi'an Flight Automatic Control Research Institute	Mingfei Lu	Xi'an Univ. of Architecture and Technology
Run Pang	AVIC Xi'an Flight Automatic Control Research Institute	Junqian Ma	Xi'an Univ. of Architecture and Technology
08:00-10:00	A12.82	Jun Lei	Xi'an Univ. of Architecture and Technology
279 <i>Parameter optimization analysis of airborne gas-liquid accumulator</i>		Weiqi Zhang	Xi'an Univ. of Architecture and Technology
Hongjun Pang	Qingan Group, Co., Ltd.	Min Zhou	Northwestern Polytechnical Univ.
Weijuan Zheng	Qingan Group, Co., Ltd.	08:00-10:00	A12.90
08:00-10:00	A12.83	458 <i>Coarse-to-fine pose estimation of noncooperative spacecraft based on iNeRF</i>	
464 <i>A multi-faceted approach enhanced DBO for complex environment UAV navigation</i>		Zilong Chen	Beihang Univ.
Bei Zhang	Changji Univ.	Haichao Gui	Beihang Univ.
Qiaoyu Zhou	Changji Univ.	Rui Zhong	Beihang Univ.
08:00-10:00	A12.84	08:00-10:00	A12.91
1216 助推滑翔飞行器内外弹道联合优化算法研究		557 <i>FDR U-Net: a frequency-directional refinement network for crack segmentation</i>	
Hongbo Ding	Central South Univ.	Zhaoyong Xiao	Linyi Univ.
Caisheng Wei	Central South Univ.	Zhen Wang	Linyi Univ.
08:00-10:00	A12.85	Wenzhe Li	Linyi Univ.
1615 <i>PID control method for aircraft pitch channel based on improved SOA</i>		Jingfeng Han	Linyi Univ.
Heming Dang	Chinese Flight Test Establishment	Zheng Wang	Linyi Univ.
08:00-10:00	A12.86	Feng Li	Linyi Univ.
118 <i>A decomposed multi-objective reinforcement learning algorithm integrating three-way decision theory</i>		08:00-10:00	A12.92
Zhiyu Zhang	Taiyuan Univ. of Science and Technology	606 基于位平面置乱与多维混沌系统的图像加密算法	
Zhixia Zhang	Taiyuan Univ. of Science and Technology	Jia Wang	College of Humanities & Information Changchun Univ. of Technology
Jie Wen	Taiyuan Univ. of Science and Technology	Qiong Wu	College of Humanities & Information Changchun Univ. of Technology
Qian Guo	Taiyuan Univ. of Science and Technology	Bing Shi	College of Humanities & Information Changchun Univ. of Technology
Erliang Yao	Taiyuan Univ. of Science and Technology	Ye Song	College of Humanities & Information Changchun Univ. of Technology
Zhihua Cui	Taiyuan Univ. of Science and Technology	08:00-10:00	A12.93
08:00-10:00	A12.87	720 <i>Reinforcement learning-based terminal guidance for counter-unmanned aircraft systems under field-of-view constraints</i>	
120 <i>A target recognition method for CT images in lung disease diagnosis based on deep convolutional neural networks</i>		Yawen Li	Xihua Univ.
Ye Song	Changchun Univ. of Technology	Wenbing Chen	AVIC Chengdu Aircraft Design and Research Institute.
08:00-10:00	A12.88	Shilong Yu	AVIC Chengdu Aircraft Design and Research Institute
199 <i>Workshop scheduling and energy efficiency improvement based on interval multi-task optimization</i>		Yongliang Wu	Xihua Univ.
JunMin Yan	Taiyuan Univ. of Science and Technology	Qifeng Jiang	Xihua Univ.
Linjie Wu	Taiyuan Univ. of Science and Technology	08:00-10:00	A12.94
XingJuan Cai	Taiyuan Univ. of Science and Technology	725 <i>Attention-augmented hierarchical reinforcement learning for autonomous decision and control</i>	
		Jiaxu Zhang	China Academy of Electronics and Information Technology
		08:00-10:00	A12.95
		820 <i>Multi-objective optimization of SLWR buoyancy module parameters via MLP surrogate modeling and NSGA-II</i>	

Zeyang Song	China Univ. of Petroleum (Beijing)		Technology Company Limited
Yu Song	China Univ. of Petroleum Beijing	Zhiwu Li	Guangdong Yuedianke Testing
08:00-10:00	A12.96		Technology Company Limited
1075 <i>APF-FACO: a fuzzy ant colony algorithm with artificial potential field for multi-UAV 3-D path planning over communication networks</i>			
Siya Liu	Beijing Jiao Tong Univ.	Dehua You	Guangdong Yuedianke Testing
Yibing Cui	Beijing Jiao Tong Univ.		Technology Company Limited
Yongguang Yu	Beijing Jiao Tong Univ.	Yang Jiao	Guangdong Yuedianke Testing
Wei Hu	Beijing Jiao Tong Univ.		Technology Company Limited
08:00-10:00	A12.97	08:00-10:00	A12.101
1157 <i>Multi-objective fuel dispatching optimization of thermal power units based on PHMMO algorithm with start-stop constraints</i>			
Kaihui Zhu	Beihang Univ.	Jiaxiang Sun	Guangdong Yuedianke Testing
Mei Yuan	Beihang Univ.		Technology Company Limited
Lei Zhu	Beijing Normal Univ.	Xin Li	Guangdong Yuedianke Testing
08:00-10:00	A12.98		Technology Company Limited
1194 <i>Online aerodynamic identification for morphing aircraft via physics-aware reinforcement learning</i>			
Bo Ding	Beihang Univ.	Wei Guo	Shantou Power Supply Bureau of
Chenzhi Li	Beihang Univ.		Guangdong Power Grid Co., Ltd.
Mingxuan He	Beihang Univ.	Hongshi Chen	Shantou Power Supply Bureau of
Song Jia	Beihang Univ.		Guangdong Power Grid Co., Ltd.
08:00-10:00	A12.99	Yifei Dong	Guangdong Yuedianke Testing
1247 <i>End-to-end UAV time-sensitive task execution based on differentiable quadratic programming</i>			
Hao Jiang	Shanghai Jiao Tong Univ.	Ming Fu	Guangdong Yuedianke Testing
Dan Huang	Shanghai Jiao Tong Univ.		Technology Company Limited
Bochen Li	Shanghai Jiao Tong Univ.	Wang Ran	Guangdong Yuedianke Testing
Lu Ding	Guang Xi Univ.		Technology Company Limited
Chenggang Wang	Shanghai Jiao Tong Univ.	Fei Zhong	Guangdong Yuedianke Testing
Lei Song	Shanghai Jiao Tong Univ.		Technology Company Limited
08:00-10:00	A12.100	Mengqiang Li	Guangdong Yuedianke Testing
1474 <i>RTC-BiFPN-YOLOv8 for X-ray defect detection in strain clamps</i>			
Jiaxiang Sun	Guangdong Yuedianke Testing	Jianbo Li	Guangdong Yuedianke Testing
	Technology Company Limited		Technology Company Limited
Xin Li	Guangdong Yuedianke Testing	Wei Deng	Guangdong Yuedianke Testing
	Technology Company Limited		Technology Company Limited
Wei Guo	Shantou Power Supply Bureau of	Fan Lu	Guangdong Yuedianke Testing
	Guangdong Power Grid Co., Ltd.		Technology Company Limited
Hongshi Chen	Shantou Power Supply Bureau of	Zhiwu Li	Guangdong Yuedianke Testing
	Guangdong Power Grid Co., Ltd.		Technology Company Limited
Fei Zhong	Guangdong Yuedianke Testing	Yang Jiao	Guangdong Yuedianke Testing
	Technology Company Limited		Technology Company Limited
Dong Fu	Guangdong Yuedianke Testing	08:00-10:00	A12.102
	Technology Company Limited	1486 <i>Continuous-space air traffic scenario generation: an intent-driven neuro-symbolic approach</i>	
Leishi Xiao	Guangdong Yuedianke Testing	Wenyi Tang	Nanjing Research Institute of
	Technology Company Limited		Electronics Engineering
Longhua Tang	Guangdong Yuedianke Testing	Yang Zhang	Nanjing Research Institute of
	Technology Company Limited		Electronics Engineering
Jianbo Li	Guangdong Yuedianke Testing	Hui Ding	Nanjing Research Institute of
	Technology Company Limited		Electronics Engineering
Mengqiang Li	Guangdong Yuedianke Testing	Zeyuan Liu	Nanjing Research Institute of
	Technology Company Limited		Electronics Engineering
Yifei Dong	Guangdong Yuedianke Testing	08:00-10:00	A12.103
		1537 <i>Minutes-level SCD early warning using LMKNCN classification and correlation-based feature selection</i>	
		Suwen Zhao	Guilin Univ. of Aerospace
			Technology
		Danhong Song	Chongqing Univ.
		Kaiyuan Nie	Chongqing Univ.
		Jian Ding	Chongqing Univ.

Jizuo Zhang	Guilin University of Aerospace Technology	Rui Meng	College of Humanities & Information Changchun Univ. of Technology
Hongying Liu	Chongqing Univ.	08:00-10:00	A12.109
Xiantian Pi	Chongqing Univ.	1707 <i>Research on image super-resolution method based on multi-resolution hashing coding</i>	
08:00-10:00	A12.104	Wei Zhao	Jilin Police College
1559 <i>A deep reinforcement learning and LSTM-based motion prediction control strategy for ship dynamic positioning</i>		Changhua Tang	College of Humanities & Information, Changchun Univ. of Technology
Changjun Hu	Shanghai Marine Electronic Equipment Research Institute	Qiong Wu	College of Humanities & Information, Changchun Univ. of Technology
Quan Shi	CASCO Signal Ltd.	Bowen Shi	College of Humanities & Information, Changchun Univ. of Technology
Xiaoxian Guo	Shanghai Jiao Tong Univ.	08:00-10:00	A12.110
Xin Li	Shanghai Jiao Tong Univ.	1732 <i>Improved multi-scale YOLOv8 for small traffic sign detection in intelligent navigation systems</i>	
08:00-10:00	A12.105	Lidong Zhao	College of Humanities & Information, Changchun Univ. of Technology
1587 <i>Railway line detector data analysis using transformer and gradient boosting decision tree</i>		Qiong Wu	College of Humanities & Information, Changchun Univ. of Technology
Shijie Zhang	Beijing Information Science and Technology Univ.	Changhua Tang	College of Humanities & Information, Changchun Univ. of Technology
Jingjing Huang	Beijing Information Science and Technology Univ.	Duorui You	College of Humanities & Information, Changchun Univ. of Technology
Maofa Wang	Beijing Information Science and Technology Univ.	Jian Li	College of Humanities & Information, Changchun Univ. of Technology
08:00-10:00	A12.106	08:00-10:00	A12.111
1593 <i>Low-altitude autonomous navigation for UAVs: evolution and future perspectives in the deep learning era</i>		1744 <i>Application of time-triggered ethernet in aircraft systems</i>	
Ziqi Yang	Beihang Univ.	Yanguo Hu	AVIC Shenyang Aircraft Design and Research Institute
Yingjie Fu	China Helicopter Research and Development Institute	Dong Zhang	AVIC Shenyang Aircraft Design and Research Institute
Jingfu Wei	China Helicopter Research and Development Institute	Bin Niu	AVIC Shenyang Aircraft Design and Research Institute
08:00-10:00	A12.107	Yifan Qi	AVIC Shenyang Aircraft Design and Research Institute
1606 <i>Evaluation model for flotation operating conditions based on attention-driven multimodal deep learning method</i>		Miao Wu	AVIC Shenyang Aircraft Design and Research Institute
Shuai He	North China Univ. of Science and Technology	08:00-10:00	A12.112
Zijie Zeng	North China Univ. of Science and Technology	148 <i>Aerial infrared target recognition framework based on hybrid feature fusion</i>	
Xuecong Fan	Hebei wind-Solar-Hydrogen-storage system Security Monitoring and Intelligent Operation Center of Technology Innovation	Zhuoyun Chen	Beijing Univ. of Technology
Zhixian Pei	North China Univ. of Science and Technology	Shaoyang Ma	Xi'an Jiaotong University
YuXin Cheng	North China Univ. of Science and Technology	Xiangyin Zhang	Beijing Univ. of Technology
Zhiqiang Wang	North China Univ. of Science and Technology	08:00-10:00	A12.113
08:00-10:00	A12.108	280 <i>Depth-reduced mobileNetV2 for 15-grade tobacco leaf classification</i>	
1706 <i>YOLOv11 multi-scale enhanced detection network based on L-GLSA</i>		Zhaoyang Du	Linyi Univ.
Yuting Xiao	College of Humanities & Information Changchun Univ. of Technology	Bo Wu	Linyi Univ.
Qiong Wu	College of Humanities & Information Changchun Univ. of Technology	Pengcheng Gao	Linyi Univ.
Changhua Tang	College of Humanities & Information Changchun Univ. of Technology	Jianhua Liu	Linyi Univ.
Xinlu Tian	College of Humanities & Information Changchun Univ. of Technology	Feng Zhao	Linyi Univ.
		Jianlong Qiu	Linyi Univ.
		Jianqiang Sun	Linyi Univ.
		08:00-10:00	A12.114

755 DTAF-NAS: dynamic target-aware neural architecture search for efficient infrared image object detection on edge NPUs		strategy for UAV object detection in harsh environments	
Qianqian Hu	National Univ. of Defense Technology	Han Jiang	Beihang Univ
Yongbin Zheng	National Univ. of Defense Technology	Yishi Liu	Beihang Univ.
Wanying Xu	National Univ. of Defense Technology	08:00-10:00	A12.121
Shengjian Bai	National Univ. of Defense Technology	913 Industrial knowledge graph construction under semantic and topological constraints	
08:00-10:00	A12.115	Ming Jian	Beijing Institute of Technology
1224 Robust-loss 2D gaussian splatting for fly-around asteroid reconstruction		Yinchi Li	Beijing Institute of Technology
Bin Jing	Beihang Univ.	Meiling Wang	Beijing Institute of Technology
Pengyu Guo	Beihang Univ.	Xiaohan He	Beijing Institute of Technology
Yuandong Li	Beihang Univ.	Yihui Wang	Beijing Institute of Technology
Jun Xu	Shanghai Institute of Satellite Engineering	08:00-10:00	A12.122
Yuan Li	Beihang Univ.	1024 A multi-rate spatio-temporal physical causal graph attention network for condition monitoring of hydraulic system	
Dongyu Li	Beihang Univ.	Qian Wang	Nanjing Univ. of Aeronautics and Astronautics
08:00-10:00	A12.116	Yajie Ma	Nanjing Univ. of Aeronautics and Astronautics.
1464 Suspicious person recognition in underground spaces based on improved YOLOv8		Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics.
Qinyi Wang	Nanjing Univ. of Aeronautics and Astronautics	Lu Lu	Nanjing Univ. of Aeronautics and Astronautics
Rongyi bai	Nanjing Univ. of Aeronautics and Astronautics	08:00-10:00	A12.123
Mou Chen	Nanjing Univ. of Aeronautics and Astronautics	1026 High-resolution detail-enhanced DEIMv2 for small object detection	
Tongle Zhou	Nanjing Univ. of Aeronautics and Astronautics	Shengwei Zhang	AVIC Luoyang Institute of Electro-optical Equipment
08:00-10:00	A12.117	Yulong Fang	AVIC Luoyang Institute of Electro-optical Equipment
1612 基于动态融合的双通道相似性度量机动作识别		Jinjin Wan	AVIC Luoyang Institute of Electro-optical Equipment
HuJun Yang	Univ. of Electronic Science and Technology of China	08:00-10:00	A12.124
MeiLi Zhang	AVIC Chengdu Aircraft Design and Research Institute	1497 RandLA-AGNet: accurate airborne LiDAR ground point extraction in complex terrains	
YouXiang Huang	AVIC Chengdu Aircraft Design and Research Institute	Yali Li	Nanjing Univ. of Aeronautics and Astronautics
XiangGang Zhang	Univ. of Electronic Science and Technology of China	Rongbing Li	Nanjing Univ. of Aeronautics and Astronautics
XiaoPing Chen	Univ. of Electronic Science and Technology of China	Yijing Liu	Nanjing Univ. of Aeronautics and Astronautics
08:00-10:00	A12.118	08:00-10:00	A12.125
105 Lightweight multi-scale detection of LNG tanker valves with LitePAN-YOLO		1520 FAMT: domain adaptation for 4D radar-based 3D object detection	
Xujie Hu	Lianyungang JARI Automation Co., Ltd.	Qiuchi Zhao	Beihang Univ.
Lixin Teng	Harbin Engineering Univ.	Xinyi Zhou	Beihang Univ.
Renjie Zhu	Lianyungang JARI Automation Co., Ltd.	Weiyl Xiong	Beihang Univ.
Lanyong Zhang	Harbin Engineering Univ.	Guanhua Ding	Beihang Univ.
08:00-10:00	A12.119	Bing Zhu	Beihang Univ.
384 A state of health estimation method for lithium-ion batteries based on the E-xLSTM model		08:00-10:00	A12.126
Liping Zhang	Xiamen Univ.	1590 MTS-MH-DeepESN:an advanced framework for emotion recognition using EEG signals	
Hongkun Zhang	Xiamen Univ.	Wenxuan Tu	Nanchang Univ.
Jinpeng Zhang	China Airborne Missile Academy	Qian Li	Nanchang Univ.
Jian Zhang	Xiamen Univ.	Qi Xia	Nanchang Univ.
Huimin Chen	Changji Univ.	Xiaohan Li	Nanchang Univ.
Delin Luo	Xiamen Univ.	Shihan Shan	Nanchang Univ.
08:00-10:00	A12.120	08:00-10:00	A12.127
682 FedGuard:a reputation-aware resilient federated learning			

1620 UAV ground target detection and tracking method based on YOLOv11 + DeepSort

Xinxi Wang	National Univ. of Defense Technology
Guo-hu Feng	National Univ. of Defense Technology
08:00-10:00	A12.128

1693 Microorganism object detection based on improved YOLOv11

Tonglai Xue	North China Univ. of Technology
Ruisi Zhao	North China Univ. of Technology
Jingcheng Guo	North China Univ. of Technology
Zhonghua Pang	North China Univ. of Technology
08:00-10:00	A12.129

1753 A satellite in-orbit fault detection method based on the LSTM neural network model

Yu Liang	China Academy of Space Technology
Di Hu	China Academy of Space Technology
Tian Zhao	China Academy of Space Technology
Huiyun Zhang	Beihang Univ.
Jingcheng Fan	Beihang Univ.
Diyin Tang	Beihang Univ.
08:00-10:00	A12.130

484 Research on clock synchronization mechanism for TTE and TSN converged network in airborne system

Xinning Tang	AVIC Shenyang Aircraft Design and Research Institute
Jiping Han	AVIC Shenyang Aircraft Design and Research Institute
kaijia Xue	AVIC Shenyang Aircraft Design and Research Institute
Ruiyang Ban	AVIC Shenyang Aircraft Design and Research Institute.
Yong Zhang	AVIC Shenyang Aircraft Design and Research Institute
08:00-10:00	A12.131

777 A study on unified time scheduling and stream mapping mechanisms for heterogeneous networks

Ruiyang Ban	AVIC Shenyang Aircraft Design and Research Institute,
Hao Liu	AVIC Shenyang Aircraft Design and Research Institute,
Zhaochen Shi	AVIC Shenyang Aircraft Design and Research Institute
Xiaoyi Chen	AVIC Shenyang Aircraft Design and Research Institute
Shuyi Liu	AVIC Shenyang Aircraft Design and Research Institute
08:00-10:00	A12.132

1114 Low-rank constrained online learning of koopman operators for time-varying predictive control

Xuefeng 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
08:00-10:00	A12.133

213 Observability-aware trajectory optimization for bearing-only

localization with sensor bias

Zeyuan Li	Southeast Univ.
Linze Chen	Southeast Univ.
Kelin Lu	Southeast Univ.
08:00-10:00	A12.134

288 An aircraft position uncertainty model-based flight conflict detection method

Hao Wang	AVIC First Aircraft Design and Research Institute
Letian Zhao	AVIC First Aircraft Design and Research Institute
Hao Li	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
08:00-10:00	A12.135

289 Flight conflict resolution based on horizontal path extension strategy

Yan Sun	Northwestern Polytechnical Univ. AVIC First Aircraft Design and Research Institute
Letian Zhao	AVIC First Aircraft Design and Research Institute
Hang Chen	AVIC First Aircraft Design and Research Institute
08:00-10:00	A12.136

649 Aircraft trajectory prediction method based on physics-informed LSTM neural network

Jin Wang	China Academy of Launch Vehicle Technology
Teng Zhou	Univ. of Electronic Science and Technology of China
Tianren Li	China Academy of Launch Vehicle Technology
08:00-10:00	A12.137

739 Robust marine ZTD forecasting using a hybrid Bi-LSTM-GRU residual learning model

Lei Jiang	Nanjing Univ. of Aeronautics and Astronautics
Rui Sun	Nanjing Univ. of Aeronautics and Astronautics
Jiantang Yin	Nanjing Univ. of Aeronautics and Astronautics
Yulin He	Nanjing Univ. of Aeronautics and Astronautics
08:00-10:00	A12.138

939 Robust gravitational acceleration estimation for rotary steerable systems using ℓ_1 -Norm optimization with sliding window IRLS

Junhua Luo	Beihang Univ.
Haoling Yin	Bauman Moscow State Technical Univ.
Ning Tang	ITMO Univ.
A. I. Matasov	Lomonosov Moscow State Univ.
Lingling Wang	Beihang Univ.
Li Fu	Beihang Univ.

08:00-10:00		A12.139		systems Engineering	
1309 <i>Global parameter sensitivity analysis of the optimal ascent trajectory for a combined-cycle vehicle</i>					
Zhiqing Gou		Beihang Univ.		Xiuli Yu	Beijing Institute of Astronautical
Lijun Yang		Beihang Univ.			systems Engineering
Mengyuan Zhao		Beihang Univ.		Guojiang Xia	Beijing Institute of Astronautical
Wanchun Chen		Beihang Univ.			systems Engineering
Liang Yang		Beihang Univ.		08:00-10:00 A12.145	
192 <i>HysFilter-SLAM: hysteresis-guided dynamic feature filtering with class-agnostic state-space detection</i>					
08:00-10:00		A12.140		Xue Shen	Nanjing Univ. of Posts and
1611 <i>Physics-constrained progressive heuristic A* for bounded-suboptimal UAV path planning in 3D wind fields</i>					
Jinliang Chen	Southwest Univ. of Science and				Telecommunications
		Technology		Jiacheng Xu	Nanjing Univ. of post and
Yuying Guo	Southwest Univ. of Science and			Jin Sun	telecommunication
		Technology			Nanjing Univ. of Posts and
08:00-10:00		A12.141			Telecommunications
1727 <i>State-aware low-complexity decoding algorithm for BeiDou NB-LDPC codes</i>					
AnYi Lv	Beijing Information Science and				
		Technology Univ.		Junrui Chen	Beihang Univ.
Yafeng Li	Beijing Information Science and			Likun Chen	Beihang Univ.
		Technology Univ.		Yichen Li	Beihang Univ.
Yi Ji	Beijing Information Science and			Shaoru Deng	Beihang Univ.
		Technology Univ		08:00-10:00 A12.147	
Junfang Fan	Beijing Information Science and			390 <i>DFC-VINS: deep feature enhanced collaborative visual-inertial SLAM with online bag-of-words loop closure</i>	
		Technology Univ		Zongyang Chen	National Univ. of Defense Technology
Sixing Zhang	Beijing Information Science and			Yu Liu	National Univ. of Defense Technology
		Technology Univ		Junyao Tang	National Univ. of Defense Technology
08:00-10:00		A12.142		Yan Guo	National Univ. of Defense Technology
1728 <i>Improved unambiguous acquisition algorithm for BeiDou B1C signals based on folded PMF-FFT</i>					
Zhankun Wang	Beijing Information Science and			Yunxiao Lv	National Univ. of Defense Technology
		Technology Univ.		Xianfei Pan	National Univ. of Defense Technology
Yafeng Li	Beijing Information Science and			08:00-10:00 A12.148	
		Technology Univ.		479 <i>Super-resolution-guided RGB-IR multimodal small-object detection for remote-sensing imagery</i>	
Yi Ji	Beijing Information Science and			Difu Zhu	Beihang Univ..
		Technology Univ.		Qingdong Li	Beihang Univ.
Junfang Fan	Beijing Information Science and			08:00-10:00 A12.149	
		Technology Univ.		550 <i>A cloud-edge architecture for VLM-driven UAV navigation and task decomposition</i>	
Sixing Zhang	Beijing Information Science and			Yanlei Yang	Beihang Univ.
		Technology Univ.		Pei Chi	Beihang Univ.
08:00-10:00		A12.143		Jiang Zhao	Beihang Univ.
1349 <i>Maneuver-aware dual-adaptive IMM-UKF for bearing-only tracking of maneuvering surface targets</i>					
Xinyang Li		Harbin Engineering Univ.		Hao Zhong	Beihang Univ.
Xin E	Shenyang Institute of Automation,			Yingxun Wang	Beihang Univ.
	CAS			08:00-10:00 A12.150	
Hongjian Wang	Harbin Engineering Univ.			662 <i>Effect of optical lens parameters on orientation in a micro-array skylight polarization compass</i>	
Hai Wu	Harbin Engineering Univ.			Tangman Cai	National Univ. of Defense Technology
Shaozheng Song	Harbin Engineering Univ.			Chen Fan	National Univ. of Defense Technology
Maozhi Zhao	Harbin Engineering Univ.			Lianwei Teng	National Univ. of Defense Technology
08:00-10:00		A12.144		Zhihe Chen	National Univ. of Defense Technology
1688 <i>Research on target position estimation based on modified spherical coordinates</i>					
Kai Zhao	Beijing Institute of Astronautical			Lilian Zhang	National Univ. of Defense Technology
	systems Engineering			08:00-10:00 A12.151	
Yani Wang	Beijing Institute of Astronautical			690 <i>Automatic landing guidance with monocular vision pose measurement based on image matching</i>	
				Yu Wang	Northwestern Polytechnical Univ.,
				Dapeng Zhou	AVIC Shenyang Aircraft Design

	and Research Institute		based on improved monodepth2
Peng Qian	AVIC Shenyang Aircraft Design and Research Institute	Jinjin Wan	Avic Luoyang Institute of Electro-optical Equipment
Zheng Sun	AVIC Shenyang Aircraft Design and Research Institute	Xuekangping Zhou	Xiamen Univ. Malaysia
Zhao Jin	AVIC Shenyang Aircraft Design and Research Institute	08:00-10:00	A12.159
08:00-10:00	A12.152	1345	<i>Lightweight small object detection method with shallow enhancement for UAV aerial imagery based on improved YOLOv10s</i>
819	<i>Dynamic error analysis and calibration for a vortex retarder-based polarization compass</i>	Haoran Li	Beijing Information Science and Technology Univ.
Xiaoyu Cao	National Univ. of Defense Technology	Qianqian Li	Beijing Information Science and Technology Univ.
Yabo Huang	National Univ. of Defense Technology	Junfang Fan	Beijing Information Science and Technology Univ.
Xiaoyang Xia	National Univ. of Defense Technology	Xiaobin Xu	Beijing Information Science and Technology Univ.
Zhe Xie	National Univ. of Defense Technology	08:00-10:00	A12.160
Bing Lei	National Univ. of Defense Technology	1646	<i>A visual navigation method based on 3D maps</i>
08:00-10:00	A12.153	Nan Liu	AVIC Xi'an Flight Automatic Control Research Institute, Aviation
846	<i>Monocular vision-based detection method for UAV air-to-air target state estimation and tracking</i>	Yazhou Yue	AVIC Xi'an Flight Automatic Control Research Institute
Ying Chen	Harbin Institute of Technology	Qi Zhou	AVIC Xi'an Flight Automatic Control Research Institute
Guangping Zhou	Harbin Institute of Technology	Xiaodong Zhang	AVIC Xi'an Flight Automatic Control Research Institute
Xu Wang	Harbin Institute of Technology	Qixuan Sun	AVIC Xi'an Flight Automatic Control Research Institute
Rui Zhou	Harbin Institute of Technology	08:00-10:00	A12.161
Yanfang Liu	Harbin Institute of Technology	1687	<i>Relative navigation algorithm for space object based on angle-only measurement</i>
08:00-10:00	A12.154	Kai Zhao	Beijing Institute of Astronautical systems Engineering
907	<i>A spiking neural network (SNN) enhanced lift-splat-shoot framework for temporally robust bird's-eye-view perception</i>	Yu Han	Beijing Institute of Astronautical Systems Engineering
Xinyu Xu	Beihang Univ.	Xiuli Yu	Beijing Institute of Astronautical systems Engineering
Enhao Zeng	Beihang Univ.	Guojiang Xia	Beijing Institute of Astronautical systems Engineering
Yixin Liu	Beihang Univ.	08:00-10:00	A12.162
Li Fu	Beihang Univ.	1703	<i>A semantic visual SLAM method in dynamic scenes based on object-level geometric voting</i>
Lingling Wang	Beihang Univ.	Xiao Ma	Aerospace Information Research Institute,CAS
08:00-10:00	A12.155	Li Wang	Beijing Institute of Technology
1055	<i>Topology-guided lifelong semantic mapping for indoor object navigation</i>	Dong Li	Aerospace Information Research Institute,CAS
Yuhang Gao	Peking Univ.	Ruixuan Gong	Beijing Institute of Technology
Yadong Mu	Peking Univ.	Cheng Wang	Aerospace Information Research Institute,CAS
08:00-10:00	A12.156	08:00-10:00	A12.163
1102	<i>Degeneracy-robust 6-DOF Visual localization for edge-computing UAVs in GNSS-denied environments</i>	144	<i>Risk-aware discrete RL gating for robust INS/ESKF integrated navigation</i>
Jing Yuan	Beihang Univ.	Hang Hu	Shenyang Aerospace Univ.
Dawei Li	Beihang Univ.	Xin Liu	Shenyang Aerospace Univ.
08:00-10:00	A12.157	Dongwei Zhang	Shenyang Aerospace Univ.
1113	<i>基于视觉融合的机场自主定位技术</i>	08:00-10:00	A12.164
Hongyuan Zhu	AVIC Chengdu Aircraft Design and Research Institute		
Jing Ni	AVIC Chengdu Aircraft Design and Research Institute		
Bo Ma	AVIC Chengdu Aircraft Design and Research Institute		
Kun Liang	AVIC Chengdu Aircraft Design and Research Institute		
Hao Wei	AVIC Chengdu Aircraft Design and Research Institute		
Yiwen Hu	AVIC Chengdu Aircraft Design and Research Institute		
08:00-10:00	A12.158		
1294	<i>Unsupervised monocular image depth estimation algorithm</i>		

197 *Supplementary explanation on using a vacuum quartz tube to prove the existence of an absolute stationary reference frame*

Qinyan Zhou
Jiajun Zhou

08:00-10:00 A12.165

198 *A hypothetical experimental approach to prove the existence of an absolutely stationary reference frame by using the mach-zehnder interferometer*

Qinyan Zhou
Jiajun Zhou

08:00-10:00 A12.166

1002 *Distributed adaptive event-triggered consensus control for unmanned aerial vehicles*

Fuqiang Di	Xi'an Modern Control Technology Research Institute
Jiang Chang	Xi'an Modern Control Technology Research Institute
Gang Wang	Xi'an Modern Control Technology Research Institute
Qiang Luo	Xi'an Modern Control Technology Research Institute
Zeyu Xu	Xi'an Modern Control Technology Research Institute

08:00-10:00 A12.167

272 *Investigating multi-channel satellite inter-frequency differential code biases for GPS/GLONASS CDMA+FDMA signals*

Yuhan Xiao	Army Engineering Univ. of PLA
Fan Zhang	Army Engineering Univ. of PLA
Jun Lei	Army Engineering Univ. of PLA
Xianghan Chen	Army Engineering Univ. of PLA
Anwen Wang	Army Engineering Univ. of PLA
Wei Lu	Army Engineering Univ. of PLA

08:00-10:00 A12.168

320 *Implementation of a multi-system GNSS receiver based on HackRF One*

Jinyan Zhang	Space Engineering Univ.
Yanfeng Hu	Space Engineering Univ.
Jing Guo	Space Engineering Univ.

08:00-10:00 A12.169

358 *INS/BA/GNSS altitude data fusion method based on soft chi-square test*

Bingzhi Su	AVIC Helicopter Design and Research Institute
Xi Cao	AVIC Helicopter Design and Research Institute
Chonghui Li	AVIC Helicopter Design and Research Institute
Yuguo Hu	AVIC Helicopter Design and Research Institute
Lin Xia	AVIC Helicopter Design and Research Institute

08:00-10:00 A12.170

565 *A robust RTK/INS integrated navigation algorithm driven by ambiguity-state for challenging environments*

Jialiang Xue	Nanjing Univ. of Aeronautics and Astronautics
--------------	--

Rui Sun	Nanjing Univ. of Aeronautics and Astronautics
---------	--

Lei Jiang	Nanjing Univ. of Aeronautics and Astronautics
-----------	--

08:00-10:00 A12.171

614 *A hyperparameter-optimized feature fusion method for seamless ins/gnss navigation during GNSS outages*

Qikun Wang	Inner Mongolia Univ.
Xiaokai Wei	Inner Mongolia Univ.

08:00-10:00 A12.172

694 *A deeply coupled inertial-visual navigation system based on pixel-matching reprojection*

Haofeng Jiang	AVIC Xi'an Flight Automatic Control Research Institute
Qi Zhou	AVIC Xi'an Flight Automatic Control Research Institute
Yazhou Yue	AVIC Xi'an Flight Automatic Control Research Institute
Jinjiang Wang	AVIC Xi'an Flight Automatic Control Research Institute
Haoming Wang	AVIC Xi'an Flight Automatic Control Research Institute

08:00-10:00 A12.173

696 *Barometer-assisted factor graph fusion of visual-inertial odometry and scene matching for autonomous navigation in GNSS-denied environments*

Jinjiang Wang	AVIC Xi'an Flight Automatic Control Research Institute
Qi Zhou	AVIC Xi'an Flight Automatic Control Research Institute
Yazhou Yue	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
Nan Liu	AVIC Xi'an Flight Automatic Control Research Institute

08:00-10:00 A12.174

330 *Flight control hydraulic servo actuation system load performance modeling*

Yang Qu	AVIC First Aircraft Design and Research Institute
Jiasheng Zhang	AVIC First Aircraft Design and Research Institute
Junhong Zhang	AVIC First Aircraft Design and Research Institute

08:00-10:00 A12.175

19 *一种基于低轨卫星的导航系统接收机设计*

Lina Xu	Aviation Key Laboratory of Science and Technology on Inertial Technology
Mengting Zhang	Aviation Key Laboratory of Science and Technology on Inertial Technology
Guoda Cheng	Aviation Key Laboratory of Science and Technology on Inertial Technology
Yimin Wang	Aviation Key Laboratory of Science and Technology on Inertial Technology

B1		1st Floor VIP Room		Technology of China	
Robust GNC		1 层 贵宾厅		B1.7	
Chairs: Yuhang Xu					
10:15-10:23		B1.1			
327 <i>Shape perception of continuum robots: methods, challenges, and prospects</i>				1627 <i>Dynamic event-triggered interval observer design for GNC battery thermal management systems</i>	
Tingting Su	Beijing Univ. of Technology			Shuaibo Gao	Henan Univ. of Science and Technology
Yue Zhang	Beijing Univ. of Technology			Shuo Han	Henan Univ. of Science and Technology
Xu Liang	Beijing Jiaotong Univ.			Shuai Song	Henan Univ. of Science and Technology
Zeye Liu	Peking Univ. People's Hospital			Xiaona Song	Henan Univ. of Science and Technology
Wendong Xiao	Univ. of Science and Technology			11:11-11:19	
Shoulie Xie	Agency for Science, Technology and Research(A*STAR)			B1.8	
Nan Ma	Beijing Univ. of Technology			1478 <i>Research on fault diagnosis method of rolling bearing based on SSCP-CNN</i>	
10:23-10:31		B1.2			
457 <i>Control strategy for high inertia variable overload servo systems</i>				Liyuan Lyu	Naval Aviation Univ.
Fang Yang	Qing'An Group Co., Ltd.			Haomin Dai	Naval Aviation Univ.
YongFeng Du	Qing'An Group Co., Ltd.			Chengyue Li	Naval Aviation Univ.
Shaojin Cui	Qing'An Group Co., Ltd.			Yongzhan Chen	Naval Aviation Univ.
Hongjun Pang	Qing'An Group Co., Ltd.			Chao Wang	Naval Aviation Univ.
Hao Li	Qing'An Group Co., Ltd.			Xingchen Liu	Naval Aviation Univ.
Qian Su	Qing'An Group Co., Ltd.			Chenfeng Sun	Naval Aviation Univ.
10:31-10:39		B1.3		11:19-11:27	
1373 <i>Event-triggered geometric control for UAVs with prescribed-time performance</i>				B1.9	
Liping Wang	Suzhou City Univ.			1712 <i>The global maximum principle for optimal control of partially observed stochastic systems driven by fractional Brownian motion</i>	
Aiping Wu	Suzhou City Univ.			Yueyang Zheng	Fudan University
10:39-10:47		B1.4		Yaozhong Hu	University of Alberta
128 <i>Topology-reconfigurable formation control in dynamic games via graphical actor-critic learning</i>				11:27-11:35	
Yizhen Meng	Shanghai Aerospace Control Technology Institute			B1.10	
Zengyi Lyu	Shanghai Aerospace Control Technology Institute			299 <i>基于 Gap 度量的分布式航空发动机联邦学习故障诊断方法</i>	
Longyu Tan	Shanghai Aerospace Control Technology Institute			Lihao Ye	Nanjing Univ. of Aeronautics and Astronautics
Jingxi Liu	Shanghai Aerospace Control Technology Institute			Yuhang Xu	Nanjing Univ. of Aeronautics and Astronautics
10:47-10:55		B1.5		Li Guo	Anhui Polytechnic Univ.
626 <i>Chance-constrained convex trajectory programming for rocket recovery based on most probable point</i>				Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics
Jiaju Wu	National Univ. of Defense Technology			11:35-11:43	
Xiang Zhou	National Univ. of Defense Technology			B1.11	
Hongbo Zhang	National Univ. of Defense Technology			1513 <i>Invariant extended kalman filter-based fault diagnosis for spacecraft attitude control systems under dynamic conditions</i>	
Guojian Tang	National Univ. of Defense Technology			Tong Wang	Beijing Institute of Spacecraft System Engineering
10:55-11:03		B1.6		Chenggeng Wu	Beijing Institute of Spacecraft System Engineering
1641 <i>Dynamical active disturbance rejection longitudinal control for hypersonic aircraft with unknown moment of inertia</i>				Ronghai Kou	Northwestern Polytechnical Univ.
Tengyu Ma	Univ. of Electronic Science and Technology of China			Qingqing Dang	Northwestern Polytechnical Univ.
Shuming Xiao	Univ. of Electronic Science and Technology of China			11:43-11:51	
Jianxiao Zou	Univ. of Electronic Science and Technology of China			B1.12	
Ping Liu	Univ. of Electronic Science and Technology of China			1683 <i>Distributed Lyapunov-based model predictive control for UAV swarm formation tracking with prescribed performance</i>	
				Chengji Tian	South China Univ. of Technology
				Wei Liu	South China Univ. of Technology
				11:51-11:59	
				B1.13	
				1609 <i>Bumpless reconfigurable fault-tolerant control of hypersonic vehicles based on nonlinear ESO</i>	
				Jiabao Li	Harbin Institute of Technology
				Wentian Nie	Beijing Aerospace Technology Institute
				Sen Yang	Harbin Institute of Technology

Qiang Wang	Harbin Institute of Technology	Jia Liu	Rocket Force Univ. of Engineering
Zhenhua Wang	Harbin Institute of Technology	Zhengquan Liu	Rocket Force Univ. of Engineering
Baiyang Zhu	Beijing Aerospace Technology Institute	Jian Zhou	Xi'an Research Institute of Hi-tech
11:59-12:07	B1.14	10:47-10:55	B2.5
1141 执行器故障与输入饱和下航天器 <i>HOCBF</i> 容错避碰			
Hang Yu	Nanjing Univ. of Aeronautics and Astronautics	Fancheng Ding	Beihang Univ.
Yajie Ma	Nanjing Univ. of Aeronautics and Astronautics	Yangzhu Wang	Beihang Univ.
Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics	Kun Wu	Beihang Univ.
		Xiaoman Zhang	Beihang Univ.
		Huaxin Qiu	Beihang Univ.
12:07-12:15	B1.15	10:55-11:03	B2.6
270 <i>A risk assessment method for low-altitude aircraft operation based on pythagorean hesitant fuzzy sets and evidence theory</i>			
Xiaowei Niu	Air Force Engineering Univ.	Tingting Hu	National Univ. of Defense Technology
Di Shen	Air Force Engineering Univ.	Yu Li	Academy of Military Sciences
Fuping Yu	Air Force Engineering Univ.	Xianqi Chen	Academy of Military Sciences
Xiaoyue Ren	Air Force Engineering Univ.	Ye Chen	Shanghai Institute of Satellite Engineering
Qinyue Zhang	The No. 93406th Troops of PLA	Weien Zhou	Academy of Military Sciences
Xiaofei Zhang	The No. 93173th Troops of PLA	Wen Yao	Academy of Military Sciences
B2	2nd Floor Yangshuo Room	11:03-11:11	B2.7
Reinforcement GNC	2 层 阳朔厅	246 <i>Spiking transformer for energy-efficient battery state-of-health estimation</i>	
Chairs: Di Liu		Yi Wan	Beihang Univ.
10:15-10:23	B2.1	Shaoping Wang	Beihang Univ.
1419 <i>Route planning based on improved SAC algorithm</i>			
Xingyi Pan	Air Force Engineering Univ.	Yixuan Zhao	Beihang Univ.
Xingyu He	Air Force Engineering Univ.	Zhongze He	Beihang Univ.
Duo Qi	Air Force Engineering Univ.	Jian Shi	Beihang Univ.
Wei Chen	Air Force Engineering Univ.	Di Liu	Beihang Univ.
10:23-10:31	B2.2	11:11-11:19	B2.8
399 <i>Intelligent penetration guidance law design based on PN+PPO hybrid architecture</i>			
Junfan Wang	Beihang Univ.	Tianxing Xu	Nanjing Univ. of Aeronautics and Astronautics
Jianglong Yu	Beihang Univ.	Dongyang Fang	Nanjing Univ. of Aeronautics and Astronautics
Hou Yi	Beihang Univ.	Ying Nan	Nanjing Univ. of Aeronautics and Astronautics
Hong Jiang	Beihang Univ.	Moufu Zhang	Nanjing Univ. of Aeronautics and Astronautics
10:31-10:39	B2.3	11:19-11:27	B2.9
1566 <i>Robust humanoid locomotion under action delay: factorizing delayed-actuation exposure and explicit delay awareness</i>			
Xulin Fu	Beijing Information Science and Technology Univ.	1011 <i>TIDE: LLM-driven intent-dynamics decoupling and semantic refinement for learning-based multi-agent motion forecasting</i>	
Daiwei Chen	Beijing Information Science and Technology Univ.	Junle Wang	Beihang Univ.
Donghao Zhang	Beijing Information Science and Technology Univ.	Shuguang Zhang	Beihang Univ.
Youzhi Dong	Beijing Information Science and Technology Univ.	Yandong Wang	Beihang Univ.
Wei He	Beijing Information Science and Technology Univ.	Xuxin Lv	Beihang Univ.
10:39-10:47	B2.4	Wenjun Wu	Beihang Univ.
1301 面向复杂机动目标拦截的动态课程学习智能制导方法			
Fucong Liu	Rocket Force Univ. of Engineering	11:27-11:35	B2.10
Yang Guo	Rocket Force Univ. of Engineering	1073 <i>Air-to-air infrared UAV detection: a dedicated dataset for UAV-anti-UAV and deep learning evaluation</i>	
Jin Wang	Rocket Force Univ. of Engineering	Xuanyue Sun	Sun Yat-sen Univ.
		Xuhui Yang	Sun Yat-sen Univ.
		Chengwei Li	Sun Yat-sen Univ.
		Zhaoheng Wu	Sun Yat-sen Univ.
		Yong Wang	Sun Yat-sen Univ.

Shunan Wu	Sun Yat-sen Univ.	Ludi Wang	Beijing Aerospace Automatic
Zhigang Wu	Sun Yat-sen Univ.		Control Institute
11:35-11:43	B2.11	Huimin Wang	Beijing Aerospace Automatic
1677 MobileHomo: a lightweight unsupervised homography estimation network for mobile inference			Control Institute
Xinqi Zhao	National Univ. of Defense Technology	Pengcheng Dong	Beijing Aerospace Automatic
Zihao Zhou	National Univ. of Defense Technology		Control Institute
Xu Zhang	National Univ. of Defense Technology	10:31-10:39	B3.3
Xiangke Wang	National Univ. of Defense Technology	509 Optimizing intermediate states in LLM-A* search for complex reasoning	
Xianguo Yu	National Univ. of Defense Technology	Chen Ji	Yangzhou Univ.
11:43-11:51	B2.12	Rui Cao	Yangzhou Univ.
844 Scale-adaptive adversarial attacks on YOLO-based UAV detection		10:39-10:47	B3.4
Jianjun Li	Guangxi Univ.	542 A landing marker detection and tracking method based on deep learning and template matching	
Lu Ding	Guangxi Univ.	Wen Yu	AVIC Beijing Keeven Aviation
Bochen Li	Shanghai Jiao Tong Univ.		Instrument CO., Ltd.
Chenggang Wang	Shanghai Jiao Tong Univ.	Hongjun Hu	AVIC Beijing Keeven Aviation
Lei Song	Shanghai Jiao Tong Univ.		Instrument CO., Ltd.
Dan Huang	Shanghai Jiao Tong Univ.	Zihao Qi	AVIC Beijing Keeven Aviation
Huaping Liu	Tsinghua Univ.		Instrument CO., Ltd.
11:51-11:59	B2.13	Yanwei Zhang	AVIC Beijing Keeven Aviation
1154 PhyFormer: a physics-consistent residual transformer with semi-supervised learning for UAV GNSS spoofing detection			Instrument CO., Ltd.
Yating Lai	National Univ. of Defense Technology	Peng Yan	AVIC Beijing Keeven Aviation
Xujie Qin	National Univ. of Defense Technology		Instrument CO., Ltd.
Yirui Cong	National Univ. of Defense Technology	Yue Zheng	AVIC Beijing Keeven Aviation
11:59-12:07	B2.14		Instrument CO., Ltd.
1143 Resilient reconfiguration for UAV Ad Hoc networks based on graph attention proximal policy optimization		Xuchen Zhang	AVIC Beijing Keeven Aviation
Lunshi Xu	Nanjing Univ. of Aeronautics and		Instrument CO., Ltd.
	Astronautics	10:47-10:55	B3.5
Ke Zhang	Nanjing Univ. of Aeronautics and	1544 CGAN: 面向单目航天器位姿估计的基于几何边缘先验的 Circulant-Mamba 网络	
	Astronautics	Yunting Gui	Changchun Univ. of Science and
Bin Jiang	Nanjing Univ. of Aeronautics and		Technology
	Astronautics	Xueming Xiao	Changchun Univ. of Science and
12:07-12:15	B2.15		Technology
1658 LP-SLD-YOLO: a lightweight teacher-student framework for small object detection in UAV aerial imagery		Yuegang Fu	Changchun Univ. of Science and
Zhiteng Liao	Southeast Univ.		Technology
He Wang	Southeast Univ.	Meibao Yao	Jilin Univ.
Wenwu Yu	Southeast Univ.	Xiangyu Huang	Beijing Institute of Control Engineering
B3 2nd Floor Lipu Room		10:55-11:03	B3.6
Vision GNC 2 层 荔浦厅		1204 视觉滑翔机场建图与定位技术	
Chairs: Guochen Niu		Hongyuan Zhu	AVIC Chengdu Aircraft Design and
10:15-10:23	B3.1		Research Institute
1453 面向航站楼密集人群的移动机器人社会感知避障方法		Bo Ma	AVIC Chengdu Aircraft Design and
Guochen Niu	China Civil Aviation Smart Airport		Research Institute
	Theory and System Key Laboratory	Yiwen Hu	AVIC Chengdu Aircraft Design and
Xue Wang	Civil Aviation Univ. of China		Research Institute
Yuguo Zhang	Civil Aviation Univ. of China	Kun Liang	AVIC Chengdu Aircraft Design and
10:23-10:31	B3.2		Research Institute
1723 Adaptive Control Method for Launch Vehicle Based on Incremental Online Reinforcement Learning		Hao Wei	AVIC Chengdu Aircraft Design and
Zhaolei Wang	Beijing Aerospace Automatic		Research Institute
	Control Institute	Jing Ni	AVIC Chengdu Aircraft Design and
			Research Institute
		11:03-11:11	B3.7
		1159 Research on optimization method of transfer alignment under dynamic condition	
		Chenglong Duan	Beijing Keeven Aviation Instrument

		Co.,Ltd.	Hairui Jiang	COMAC Shanghai Aircraft Design and Research Institute
Yongsheng Hu	Beijing Keeven Aviation Instrument	Co.,Ltd.	Mengyao Wu	COMAC Shanghai Aircraft Design and Research Institute
Peng Yan	Beijing Keeven Aviation Instrument	Co.,Ltd.	Dongguang Xu	COMAC Shanghai Aircraft Design and Research Institute
Xiao Zhang	Beijing Keeven Aviation Instrument	Co.,Ltd.	Hualong Dong	COMAC Shanghai Aircraft Design and Research Institute
11:11-11:19		B3.8	Qi Chen	COMAC Shanghai Aircraft Design and Research Institute
709 <i>Innovation-driven adaptive lie group extended kalman filter for world-frame SINS/GNSS integrated navigation</i>				
Fuan Duan	National Univ. of Defense Technology		11:59-12:07	B3.14
Maosong Wang	National Univ. of Defense Technology		1220 <i>Lateral deviation correction control for automatic takeoff roll of civil aircraft based on low visibility</i>	
Yuxuan Wu	National Univ. of Defense Technology		Nuo Deng	COMAC Shanghai Aircraft Design and Research Institute
Xuanying Li	National Univ. of Defense Technology		Weijie Lyu	COMAC Shanghai Aircraft Design and Research Institute
Xueyu Du	National Univ. of Defense Technology		Chang Liu	COMAC Shanghai Aircraft Design and Research Institute
11:19-11:27		B3.9	12:07-12:15	B3.15
724 <i>Research on LADRC autopilot for aerial guided munitions with hinge moment feedforward compensation</i>				
Xuanbo Liu	Beijing Institute of Technology		1632 <i>Design of excess deviation alert for localizer and glide slope of civil aircraft</i>	
Qiuqiu Wen	Beijing Institute of Technology		Na He	Shanghai Aircraft Design and Research Institute
Weiwei Li	China Research and Development Academy of Machinery Equipment		Ziyan Shao	Shanghai Aircraft Design and Research Institute
Yantao Hu	Norinco Group Air Ammunition Research Institute Co., Ltd.,		B4 2nd Floor Nanning Room1	
Sheng He	Norinco Group Air Ammunition Research Institute Co., Ltd.,		Safety GNC 2 层 南宁厅 1	
11:27-11:35		B3.10	Chairs: Yanbin Liu	
1233 飞机机动平面控制方法及应用研究				
Jiabo Feng	Beihang Univ.		10:15-10:23	B4.1
Baicheng Lu	Beihang Univ.		856 垂直起降变体飞行器控制关联的过渡走廊设计	
Weiqi Li	Beihang Univ.		Zengzhen Zhao	Nanjing Univ. of Aeronautics and Astronautics
11:35-11:43		B3.11	Zilong Wang	Nanjing Univ. of Aeronautics and Astronautics
1007 <i>Robust position tracking of the towed cable-drogue system via tangent-type adaptive prescribed performance control</i>				
Jianheng He	Beihang Univ.		Yanbin Liu	Nanjing Univ. of Aeronautics and Astronautics
Honglun Wang	Beihang Univ.		Boyi Chen	Nanjing Univ. of Aeronautics and Astronautics
Junfan Zhu	Beihang Univ.		Jun Jia	Nanjing Univ. of Aeronautics and Astronautics
Jinbai Li	Beihang Univ.		10:23-10:31	B4.2
Zikang Su	Nanjing Univ. of Aeronautics and Astronautics		366 <i>Trajectory tracking control for autonomous vehicles based on barrier lyapunov function and extended state observer</i>	
11:43-11:51		B3.12	Juqi Hu	Anhui Univ.
812 <i>Design of a lateral-directional flight control system for transport aircraft based on incremental nonlinear dynamic inversion</i>				
Jiawei Xu	Beijing Keeven Aviation Instrument	Co.Ltd.	Yiping Wu	Anhui Univ.
Song Wang	Beijing Keeven Aviation Instrument	Co.Ltd.	Changyin Sun	Anhui Univ.
Guanru Zhao	Beijing Keeven Aviation Instrument	Co.Ltd.	Youmin Zhang	Concordia Univ.
10:31-10:39		B4.3	1031 <i>Gravity compensation-based nonlinear robust control of laser turntable for anti-UAV</i>	
Lele Zhang	Beijing Keeven Aviation Instrument	Co.Ltd.	Benfeng Luan	Yanshan Univ.
Wenchong Sun	Beijing Keeven Aviation Instrument	Co.Ltd.	Junbo Wang	Yanshan Univ.
11:51-11:59		B3.13	Xinghua Chen	Beihang Univ.
726 <i>Static position accuracy analysis of civil aircraft primary flight control svstem</i>				
			Yao Li	AVIC. Qing'An Group, Co., Ltd.
			Jing Yao	Yanshan Univ.

10:39-10:47	B4.4	Telecommunications
1360 <i>Fault-tolerant control for electro-hydraulic brake system based on fixed-time observer and sliding mode control</i>		Southeast Univ.
Wenjie Wu	Beihang Univ.	
Yuwei Zhang	Beihang Univ.	
Rui Mu	Beihang Univ.	
Xingjian Wang	Beihang Univ.	
Shaoping Wang	Beihang Univ.	
Xi Wang	Suzhou Tiantong Weishi Electronic Technology Co., Ltd.	
10:47-10:55	B4.5	
1402 <i>Safe trajectory tracking and obstacle avoidance for UAVs based on UKF and CBF-MPC</i>		
Aohui Wang	Beihang Univ.	
Zheng Zhang	Beihang Univ.	
Xiaoduo Li	Beihang Univ.	
Yongzhao Hua	Beihang Univ.	
Xiwang Dong	Beihang Univ.	
10:55-11:03	B4.6	
295 <i>Leader-follower consensus of discrete-time multi-agent systems with dual Markovian switching via mode- and topology-dependent control</i>		
Ziheng Zhou	Jinling Institute of Technology	
Quan Li	Jiangsu Second Normal Univ.	
Chaolong Zhang	Jinling Institute of Technology	
Rui Dai	Jiaxing Univ.	
Xiaojing Ping	Jiangnan Univ.	
Yaxuan Liu	Jiangsu Second Normal Univ.	
11:03-11:11	B4.7	
825 <i>Observer-based distributed prescribed-time control for STL task execution in communication-constrained multi-agent systems</i>		
Ziyi Wang	Huazhong Univ. of Science and Technology	
Wentao Zhang	Huazhong Univ. of Science and Technology	
Zhiwei Liu	Huazhong Univ. of Science and Technology	
11:11-11:19	B4.8	
1659 <i>MPC-RORCA: a decentralized trajectory planning method for multi-robot systems</i>		
Xiaotong Li	Beijing Institute of Technology	
Pengfei Liu	Beijing Institute of Technology	
11:19-11:27	B4.9	
1166 <i>Coordinated motion planning and control for small fixed-wing UAVs in dense environments</i>		
Haozhe Sun	National Univ. of Defense Technology	
Tianqing Liu	The Chinese Armed Police Force Command College	
Zhaowei Ma	National Univ. of Defense Technology	
Yifeng Niu	National Univ. of Defense Technology	
11:27-11:35	B4.10	
1531 <i>Fixed-time bipartite consensus control of signed digraphs with connectivity preservation</i>		
Qinlang Xu	Nanjing Univ. of Posts and Telecommunications	
Huifen Hong	Nanjing Univ. of Posts and Telecommunications	
He Wang	Southeast Univ.	
11:35-11:43	B4.11	
1298 <i>Predefined-time QAV formation control under input saturation and input quantization</i>		
Xuyan Liu	Northwestern Polytechnical Univ.	
Chanyuan Ma	Northwestern Polytechnical Univ.	
Yujiang Zhong	Northwestern Polytechnical Univ.	
Ping Li	Northwestern Polytechnical Univ.	
Jiayi Zhou	Northwestern Polytechnical Univ.	
11:43-11:51	B4.12	
855 <i>Prescribed-time consensus for multi-UAV based on prescribed-performance</i>		
Ruirui Zhang	Northwestern Polytechnical Univ.	
Ban Wang	Northwestern Polytechnical Univ.	
11:51-11:59	B4.13	
1338 <i>Reinforcement learning-driven formation control for input-constrained multi-agent networks</i>		
Chunyan Wang	Beijing Institute of Technology	
Yang Fei	Beijing Institute of Technology	
Wei Dong	Beijing Institute of Technology	
Xiang Shi	Tsinghua Univ.	
Lele Zhang	Beijing Institute of Technology	
Chen Chen	Beijing Institute of Technology	
Fang Deng	Beijing Institute of Technology	
11:59-12:07	B4.14	
124 <i>Three-dimensional predefined-time cooperative guidance with field-of-view constraints</i>		
Jiedong He	Nanjing Univ. of Aeronautics and Astronautics	
Meng Yu	Nanjing Univ. of Aeronautics and Astronautics	
12:07-12:15	B4.15	
681 <i>基于扩维正系统的折展机翼变负载预设性能控制</i>		
Jiayuan Gu	Nanjing Univ. of Aeronautics and Astronautics	
Boyi Chen	Nanjing Univ. of Aeronautics and Astronautics	
Yifan Han	Nanjing Univ. of Aeronautics and Astronautics	
Yanbin Liu	Nanjing Univ. of Aeronautics and Astronautics	
Jinbao Chen	Nanjing Univ. of Aeronautics and Astronautics	
B5	2nd Floor Nanning Room2	
Flight GNC	2层 南宁厅 2	
Chairs: Zikang Su		
10:15-10:23	B5.1	
1562 <i>End-to-end autonomous flight of quadrotor UAVs based on attention fusion-SAC</i>		
Yuanshun Wang	Shanghai Maritime Univ.	
Guangyu Zhang	Shenyang Institute of Automation, CAS	
Bo Li	Shanghai Maritime Univ.	
10:23-10:31	B5.2	
373 <i>Fixed-time distributed attitude tracking control of multiple QAVs without angular velocity sensors</i>		

Meng Zhang	Southeast Univ.	Wenkun Gu	Air Force Engineering Univ.
Linan Wang	Beijing Institute of Technology	Qiang Miao	Air Force Engineering Univ.
Huixiong Wang	Southeast Univ.	Chunlei Pang	Air Force Engineering Univ.
Huian Yan	LiaoNing Technical Univ.	11:35-11:43	B5.11
10:31-10:39	B5.3	397 <i>Anti-disturbance air-dropped control of the flying wing UAV from a mother carrier</i>	
493 <i>Collision-free trajectory tracking control of quadrotors</i>		Zijian Zhou	Nanjing Univ. of Aeronautics and Astronautics
Zhuo Liu	Southeast Univ.	Xinru Wang	Nanjing Univ. of Aeronautics and Astronautics
Linan Wang	Beijing Institute of Technology	Jinjin Wan	AVIC Luoyang Institute of Electro-optical Equipment
Huian Yan	LiaoNing Technical Univ.,	Chaoqiang Zhao	AVIC Luoyang Institute of Electro-optical Equipment
Jing Nie	Beijing Institute of Technology	ChangHui Jiang	Nanjing Univ. of Aeronautics and Astronautics
10:39-10:47	B5.4	Zikang Su	Nanjing Univ. of Aeronautics and Astronautics
273 <i>Nonlinear control of tiltrotor aircraft based on INDI and RBF neural network</i>		11:43-11:51	B5.12
Xinyu Li	Tianjin Univ.	675 <i>Attitude control of flying boom under composite aerodynamic disturbances</i>	
Bin Xian	Tianjin Univ.	Zhihua Xiong	Beihang Univ.
10:47-10:55	B5.5	Honglun Wang	Beihang Univ.
792 <i>基于代理建模与降维评价的变体旋翼飞行器自适应决策</i>		Junfan Zhu	Beihang Univ.
Xuqiao Wang	Civil Aviation Univ. of China	Jinbai Li	Beihang Univ.
Menghao Duan	Civil Aviation Univ. of China	Zikang Su	Nanjing Univ. of Aeronautics and Astronautics
Qijun Luo	Civil Aviation Univ. of China	11:51-11:59	B5.13
10:55-11:03	B5.6	834 <i>Coordinated landing control for a VTOL UAV with lifting surface under terminal attitude constraints</i>	
787 <i>Research on forward speed tracking of solar-powered UAV based on terminal sliding mode control</i>		Yifang Fu	Northwestern Polytechnical Univ.
Heng Li	Naval Aviation Univ.	Lin Li	Navigation and Control Technology Research Institute of Norinco Group
Lingling Wang	Naval Aviation Univ.	Zhiqi Qi	Northwest Regional Air Traffic Management Bureau of Civil Aviation of China
Yuliang Cheng	Naval Aviation Univ.	Bufan Chang	Northwestern Polytechnical Univ.
Junwei Lei	Naval Aviation Univ.	Ban Wang	Northwestern Polytechnical Univ.
11:03-11:11	B5.7	11:59-12:07	B5.14
1390 <i>Bridging semantics and dynamics: a decoupled LLM-RL framework for UAV target search</i>		837 <i>ESO-based prescribed-time control of canard rotor/wing UAV with asymmetrical performance constraints under external disturbances</i>	
Jiankun Guo	National Univ. of Defense Technology	Huimin Zhao	Northwestern Polytechnical Univ.
Zhaowei Ma	National Univ. of Defense Technology	Ban Wang	Northwestern Polytechnical Univ.
Wei qi Sun	National Univ. of Defense Technology	Ni Li	Northwestern Polytechnical Univ.
Yifeng Niu	National Univ. of Defense Technology	12:07-12:15	B5.15
11:11-11:19	B5.8	896 <i>Autonomous flight control of the bird-inspired unmanned aircraft without a vertical tail</i>	
1397 <i>Ellipsoidal NMPC for quadrotor obstacle avoidance in cluttered dynamic environments</i>		Tingting Wang	Beijing Keeven Aviation Instrument Co. Ltd.
Zhenzhao Wang	National Univ. of Defense Technology	Xiuyu He	Univ. of Science and Technology Beijing
Xudong Liu	National Univ. of Defense Technology	Wei He	Univ. of Science and Technology Beijing
Su Cao	National Univ. of Defense Technology		
Li Yu	National Univ. of Defense Technology		
Xiangke Wang	National Univ. of Defense Technology		
11:19-11:27	B5.9		
1501 <i>Robust intelligent attitude tracking of UAVs via integrated sliding mode and adaptive dynamic programming</i>			
Kun Zhou	Xi'an Technological Univ.		
Li Yu	National Univ. of Defense Technology		
Zeng Wang	Xi'an Technological Univ.		
11:27-11:35	B5.10		
401 <i>Six-DOF tracking control for non-cooperative UAVs with bearing-only measurements</i>			
Peiran Li	Air Force Engineering Univ.		
Lei Xie	Nanjing Univ. of Aeronautics and Astronautics		
Dian Wang	Shanghai Satellite Engineering Astronautics		
Hao Wu	Air Force Engineering Univ.		

B6	2nd Floor Nanning Room3
Optimization GNC	2 层 南宁厅 3

Chairs: Yu Liang		
10:15-10:23	B6.1	
1249 <i>GPS: continuous-time Gaussian process trajectory optimization in 3D Gaussian Splatting maps</i>		
Ziyang Zuo	Shanghai Univ.	
Guoxiang Zhao	Shanghai Univ.	
Xiaoqiang Ren	Shanghai Univ.	
10:23-10:31	B6.2	
852 <i>Customized ADMM approach to joint observation and transmission scheduling in Earth observation satellite networks</i>		
Shibo Chen	Sichuan Univ.	
Bin Li	Sichuan Univ.	
10:31-10:39	B6.3	
1634 <i>Coarse-to-fine trajectory prediction for UAV air combat via conditional diffusion</i>		
Dingyuan Zhang	Beihang Univ.	
Gang Xie	Beihang Univ.	
Ke Li	Beihang Univ.	
Huaxin Qiu	Beihang Univ.	
Yangzhu Wang	Beihang Univ.	
10:39-10:47	B6.4	
927 <i>A hierarchical reinforcement learning framework with graph convolutional networks for resilient network topology restoration</i>		
Yuanhao Ye	Beijing Institute of Technology	
Yang Xu	Beihang Univ.	
Yu Liang	Beijing Univ. of Technology	
Xiaolin Ai	Institute of Automation, CAS	
10:47-10:55	B6.5	
892 <i>金属微半球谐振陀螺全角模式解耦控制方法</i>		
Zhuorui Yang	Beijing Institute of Technology	
Kai Shen	Beijing Institute of Technology	
Zhengyu Wu	Beijing Institute of Technology	
Zuwei Yang	Beijing Institute of Technology	
Jiahe Zhang	Beijing Institute of Technology	
10:55-11:03	B6.6	
900 <i>Integrated closed-loop vector NV magnetometer</i>		
Jinjie Wang	North Univ. of China	
Xuanhui Ren	North Univ. of China	
Weibing Li	North Univ. of China	
Wenqian Jia	North Univ. of China	
Mingchao Li	North Univ. of China	
Jiayuan Fu	North Univ. of China	
Doudou Zheng	Taiyuan Institute of Technology	
Zongmin Ma	North Univ. of China	
11:03-11:11	B6.7	
1691 <i>上抛式四脉冲冷原子陀螺仪中的高精度角度对准技术研究</i>		
Keixiao Niu	AVIC Xi'an Flight Automatic Control Research Institute	
Yuchen Wang	AVIC Xi'an Flight Automatic Control Research Institute	
Yuanzheng Liu	AVIC Xi'an Flight Automatic Control Research Institute	
Weiqi Chen	AVIC Xi'an Flight Automatic Control Research Institute	
11:11-11:19	B6.8	
1018 <i>Research on incremental dynamic inversion longitudinal control method for STOVL UAVs oriented to short rolling landing</i>		
Shaoze Huo	Dalian Univ. of Technology	
Bin Wang	AVIC Chinese Flight Test Establishment	
Qingfeng Zhao	Dalian Univ. of Technology	
Ming Yan	Dalian Univ. of Technology	
Kai Liu	Dalian Univ. of Technology	
11:19-11:27	B6.9	
428 <i>Optimal sensor placement for bearing-only target localization with prior information</i>		
Kunzhong Miao	National Univ. of Defense Technology	
Hongbo Yu	National Univ. of Defense Technology	
Huangzhi Yu	National Univ. of Defense Technology	
Chang Wang	National Univ. of Defense Technology	
Jiangyan He	Army Engineering Univ. of the PLA	
Yifeng Niu	National Univ. of Defense Technology	
11:27-11:35	B6.10	
1436 <i>微纳卫星扩频通信系统设计与验证</i>		
Hangsong Zhao	Harbin Institute of Technology	
Jian Chen	Harbin Institute of Technology	
Xueqin Chen	Harbin Institute of Technology	
Shi Qiu	Harbin Institute of Technology	
Fan Wu	Harbin Institute of Technology	
Jinsheng Guo	Harbin Institute of Technology	
11:35-11:43	B6.11	
972 <i>Investigation of the effects of surface protuberances on angle-of-attack measurements in air data systems</i>		
Saihu Pu	AVIC Chengdu Aircraft Design and Research Institute	
Shuangshuang Yang	AVIC Chengdu Aircraft Design and Research Institute	
Nan Zhu	AVIC Chengdu Aircraft Design and Research Institute	
11:43-11:51	B6.12	
985 <i>Transonic static pressure jump in pitot tubes: mechanism and correction</i>		
Jie Liu	AVIC Taiyuan Aero-Instruments Co., Ltd.	
Wenjun Chen	AVIC Taiyuan Aero-Instruments Co., Ltd.	
Changan Zhang	AVIC Chengdu Aircraft Design and Research Institute	
Shuangshuang Yang	AVIC Chengdu Aircraft Design and Research Institute	
11:51-11:59	B6.13	
990 <i>Feasibility assessment method for ADS algorithm and sensor layout</i>		
Shuangshuang Yang	AVIC Chengdu Aircraft Design and Research Institute	
Saihu Pu	AVIC Chengdu Aircraft Design and Research Institute	
Deming Deng	AVIC Chengdu Aircraft Design and Research Institute	
11:59-12:07	B6.14	
992 <i>Study of pressure measurement errors induced by temperature gradients in sensor tubing</i>		
Zhongyong Zou	AVIC Chengdu Aircraft Design and Research Institute	

11:35-11:43	B7.11		
623 <i>Disturbance rejection flight control for tiltrotor aircraft in horizontal mode based on LESO-SMC</i>			
Chenrui Qian	Nanjing Univ. of Aeronautics and Astronautics	Chenyang She	Northwestern Polytechnical Univ.
Yanfeng Liu	Nanjing Univ. of Aeronautics and Astronautics	Changqing Wang	Northwestern Polytechnical Univ.
Panpan Xiong	Nanjing Univ. of Aeronautics and Astronautics	Hongshi Lu	Northwestern Polytechnical Univ.
Shouzhao Sheng	Nanjing Univ. of Aeronautics and Astronautics	Aijun Li	Northwestern Polytechnical Univ.
11:43-11:51	B7.12	10:31-10:39	B8.3
691 <i>Local receptive fields based fuzzy extreme learning machine</i>			
Yan Liu	AVIC Xi'an Flight Automatic Control Research Institute	309 <i>Orbit rendezvous guidance for multiple spacecraft near the Earth-Moon libration point L1 based on invariant manifolds</i>	
Jia Li	AVIC Xi'an Flight Automatic Control Research Institute	Hanyu Li	Samara National Research Univ.
Wenqian Zhang	AVIC Xi'an Flight Automatic Control Research Institute	Olga L. Starinova	Samara National Research Univ.
11:51-11:59	B7.13	Chongrui Du	Northwestern Polytechnical Univ.
793 <i>Helicopter attitude control based on DSM-ADRC</i>			
Cheng Yang	Nanjing Univ. of Aeronautics and Astronautics	Jingze Yu	Northwestern Polytechnical Univ.
Panpan Xiong	Nanjing Univ. of Aeronautics and Astronautics	10:39-10:47	B8.4
Shouzhao Sheng	Nanjing Univ. of Aeronautics and Astronautics	598 <i>Prescribed performance control of space tether system for maneuvering between spatial spinning orientations</i>	
11:59-12:07	B7.14	Kexin Li	Northwestern Polytechnical Univ.
1424 <i>Aircraft-guided relation-aware open-vocabulary object detection for UAV drogue recognition</i>			
Haoming Wang	Northwestern Polytechnical Univ.	Changqing Wang	Northwestern Polytechnical Univ.
Qi Zhou	Tianchuang Aviation Navigation and Control Technology Co., Ltd.	Hongshi Lu	Northwestern Polytechnical Univ.
Dong Zhang	Northwestern Polytechnical Univ.	Aijun Li	Northwestern Polytechnical Univ.
Jinjiang Wang	Tianchuang Aviation Navigation and Control Technology Co., Ltd.	Pavel Fadeenkov	Samara National Research Univ.
Hao Li	AVIC Xi'an Flight Automatic Control Research Institute	10:47-10:55	B8.5
Yazhou Yue	Tianchuang Aviation Navigation and Control Technology Co., Ltd.	600 <i>Agile satellite formation earth observation task planning using a spatiotemporal heuristic progressive insertion algorithm</i>	
12:07-12:15	B7.15	Jiaqi Mu	Northwestern Polytechnical Univ.
1743 <i>Target electromagnetic characteristic simulation technology driven by both data and mechanism</i>			
Baichen Jiang	Unit 92942	Yujie Si	Beijing Aerospace Automatic Control Institute
Shuman Wang	Unit 92942	Yong Guo	Northwestern Polytechnical Univ.
Yuanyuan Zhou	Sichuan Aerospace Electronic Equipment Research Institute	Aijun Li	Northwestern Polytechnical Univ.
Nan Wang	Unit 92942	Changqing Wang	Northwestern Polytechnical Univ.
B8		Hongshi Lu	Northwestern Polytechnical Univ.
Aerospace GNC		10:55-11:03	B8.6
Chairs: Hongshi Lu		609 <i>Research on tight formation maneuvering flight control for heterogeneous aircraft</i>	
10:15-10:23	B8.1	Yunpeng Cai	Northwestern Polytechnical Univ.
339 <i>Neural network model reference adaptive control for coaxial high-speed helicopters</i>			
Gao Shu	Northwestern Polytechnical Univ.	Ameng Xu	AVIC First Aircraft Design and Research Institute
Aijun Li	Northwestern Polytechnical Univ.	Yu Li	The Hong Kong Polytechnic Univ.
10:23-10:31	B8.2	Xiaobo Qu	Northwestern Polytechnical Univ.
		Xiaoxiong Liu	Northwestern Polytechnical Univ.
		11:03-11:11	B8.7
		611 <i>Research on topology reconfiguration control methods for transport aircraft in close formation</i>	
		Zongwei Chai	Northwestern Polytechnical Univ.
		Yu Li	The Hong Kong Polytechnic Univ.
		Xinhui Zhang	AVIC First Aircraft Design and Research Institute
		Xiaobo Qu	Northwestern Polytechnical Univ.
		Xiaoxiong Liu	Northwestern Polytechnical Univ.
		11:11-11:19	B8.8
		859 <i>Trajectory optimization for constructing artificial gravity with spinning tether system</i>	
		Deming Du	Northwestern Polytechnical Univ.
		Hongshi Lu	Northwestern Polytechnical Univ.
		Changqing Wang	Northwestern Polytechnical Univ.
		Aijun Li	Northwestern Polytechnical Univ.

Vladimir Saetchnikov	Belarusian State Univ.
11:19-11:27	B8.9
265 面向仿生航向估计的圆周变分贝叶斯跟踪滤波算法	
Kunlun Chen	North Univ. of China
Xindong Wu	North Univ. of China
Chong Shen	North Univ. of China
11:27-11:35	B8.10
1063 Practical prescribed-time tracking control for small tandem-rotor UAV formation	
Xiaolu Li	Northwestern Polytechnical Univ.
Changqing Wang	Northwestern Polytechnical Univ.
Hongshi Lu	Northwestern Polytechnical Univ.
Yong Guo	Northwestern Polytechnical Univ.
Aijun Li	Northwestern Polytechnical Univ.
11:35-11:43	B8.11
1399 An active stabilization approach for vibration suppression of electrodynamic tether system	
Yanfang Li	Yulin Univ.
Aijun Li	Northwestern Polytechnical Univ.
Changqing Wang	Northwestern Polytechnical Univ.
Hongshi Lu	Northwestern Polytechnical Univ.
11:43-11:51	B8.12
1050 Fast terminal sliding mode control of space tug for de-orbiting debris from Geostationary orbit	
Xinhang Zheng	Northwestern Polytechnical Univ.
Changqing Wang	Northwestern Polytechnical Univ.
Hongshi Lu	Northwestern Polytechnical Univ.
Aijun Li	Northwestern Polytechnical Univ.
Olga Starinova	Samara National Research Univ.
11:51-11:59	B8.13
732 Integrated orbit-attitude control for spinning tether system in fly-around observation mission	
Yunchen He	Northwestern Polytechnical Univ.
Changqing wang	Northwestern Polytechnical Univ.
Hongshi Lu	Northwestern Polytechnical Univ.
Aijun Li	Northwestern Polytechnical Univ.
Dmitry Elenev	Samara National Research Univ.
11:59-12:07	B8.14
500 Adaptive sliding mode control and envelope protection for coaxial compound helicopters	
Zuo Li	Northwestern Polytechnical Univ.
Aijun Li	Northwestern Polytechnical Univ.
Kangzhe Shi	Northwestern Polytechnical Univ.
Yingke Liu	Northwestern Polytechnical Univ.
B9 2nd Floor Guilin Room 2	
Automatic GNC 2 层 桂林厅 2	
Chairs: Kai Liu	
10:15-10:23	B9.1
136 Design and simulation of automatic flight control system for future autonomous air combat scene	
Wenzhe Li	AVIC Shenyang Aircraft Design and Research Institute
Yanguo Hu	AVIC Shenyang Aircraft Design and Research Institute
Fangliu Jin	AVIC Shenyang Aircraft Design and Research Institute
Yan Ding	AVIC Shenyang Aircraft Design

	and Research Institute
10:23-10:31	B9.2
139 Research on carrier landing with multiple control surfaces allocation based on eigenstructure assignment	
Xiulin Zhang	AVIC Shenyang Aircraft Design and Research Institute
Hao Yun	AVIC Shenyang Aircraft Design and Research Institute
Xiaolei Qu	Northwestern Polytechnical Univ.
Hao Chen	AVIC Shenyang Aircraft Design and Research Institute
Kecheng Li	Northwestern Polytechnical Univ.
Xiaoxiong Liu	Northwestern Polytechnical Univ.
10:31-10:39	B9.3
368 Research on fighter aircraft assisted flight control based on dynamic human-machine control authority allocation	
Ran Liu	Beihang Univ.
Yanguo Hu	Beihang Univ.
Yuxiang Qiu	AVIC Shenyang Aircraft Design and Research Institute
Yifan Qi	AVIC Shenyang Aircraft Design and Research Institute
Di Wu	AVIC Shenyang Aircraft Design and Research Institute
Jinyi Song	AVIC Shenyang Aircraft Design and Research Institute
10:39-10:47	B9.4
539 Phase-dependent integrated NMPC framework for drag-profile-based entry guidance	
Xin Wen	National Univ. of Defense Technology
Xiangyu Yan	National Univ. of Defense Technology
Fansen Zhou	National Univ. of Defense Technology
Wei Zheng	National Univ. of Defense Technology
10:47-10:55	B9.5
571 Research on distributed propulsion control allocation for dynamic and energy efficiency co-optimization	
Zhechen Liu	Dalian Univ. of Technology
Weining Huang	AVIC Shenyang Aircraft Design and Research Institute
YongZhen Liu	AVIC Shenyang Aircraft Design and Research Institute
Kai Liu	Dalian Univ. of Technology
Qingfeng Zhao	Dalian Univ. of Technology
Ming Yan	Dalian Univ. of Technology
Junyi Duan	Dalian Univ. of Technology
Zijun Gu	Dalian Univ. of Technology
Yunlong Zhao	Dalian Univ. of Technology
10:55-11:03	B9.6
710 Robust model predictive control for hypersonic vehicles considering active inlet protection	
Yiqiang Hou	Dalian Univ. of Technology
Qiang Min	AVIC Chengdu Aircraft Design and Research Institute
Guan Wang	Dalian Univ. of Technology
Xi Cheng	AVIC Chengdu Aircraft Design and Research Institute Research
Yu Zhang	AVIC Chengdu Aircraft Design and

Research Institute		Zhechen Liu	Dalian Univ. of Technology
11:03-11:11	B9.7	Yunlong Zhao	Dalian Univ. of Technology
747 <i>Stability augmentation control via thrust vector: an adaptive control method based on hinge moment estimation for thrust observation</i>		11:43-11:51	B9.12
Heqi Li	AVIC Shenyang Aircraft Design and Research Institute	Liang Yu	National Univ. of Defense Technology
Shipeng Wang	AVIC Shenyang Aircraft Design and Research Institute	Mengyun Wang	National Univ. of Defense Technology
Yeguang Wang	AVIC Shenyang Aircraft Design and Research Institute	Yifeng Niu	National Univ. of Defense Technology
Ning Wang	AVIC Shenyang Aircraft Design and Research Institute	11:51-11:59	B9.13
Kai Liu	Dalian Univ. of Technology	1444 <i>Research on automatic landing processes and simulations for civil aircraft</i>	
Qingfeng Zhao	Dalian Univ. of Technology	Miao Wu	AVIC Shenyang Aircraft Design and Research Institute
11:11-11:19	B9.8	Yanming Fan	AVIC Shenyang Aircraft Design and Research Institute
785 基于 MASD 和 AI 的飞控智能软件开发方法研究		Yanguo Hu	AVIC Shenyang Aircraft Design and Research Institute
Qi Zhang	AVIC Shenyang Aircraft Design and Research Institute	Jingling Gui	AVIC Shenyang Aircraft Design and Research Institute
Haoyu Liu	AVIC Shenyang Aircraft Design and Research Institute	Derui Wang	AVIC Shenyang Aircraft Design and Research Institute
Yue Wang	AVIC Shenyang Aircraft Design and Research Institute	11:59-12:07	B9.14
Hongrun Yi	AVIC Shenyang Aircraft Design and Research Institute	1578 <i>Design and analysis of transition strategies for composite wing unmanned aerial vehicles</i>	
11:19-11:27	B9.9	Haoyong Jiang	Dalian Univ. of Technology
994 <i>Active airframe-propulsion integrated control for air-breathing hypersonic vehicles</i>		Zhongrun Wang	Dalian Univ. of Technology
Jiaxin Li	Sun Yat-sen Univ.	Yunlong Zhao	Dalian Univ. of Technology
Boyu Zeng	Dalian Univ. of Technology	Huadong Li	Dalian Univ. of Technology
Shuaibin An	Dalian Univ. of Technology	Qingfeng Zhao	Dalian Univ. of Technology
Guan Wang	Dalian Univ. of Technology	Zongyu Zhang	Dalian Maritime Univ.
Kai Liu	Dalian Univ. of Technology	Jun Liu	Dalian Univ. of Technology
Zhigang Wu	Sun Yat-sen Univ.	Kai Liu	Dalian Univ. of Technology
11:27-11:35	B9.10	12:07-12:15	B9.15
1067 <i>Attitude reconstruction control via airframe-propulsion coupling for air-breathing hypersonic vehicles under aerodynamic control effectiveness degradation</i>		1738 <i>AI-Assisted requirements-driven modeling and testing closed-loop framework for flight control system</i>	
Boyu Zeng	Dalian Univ. of Technology	Chenguang LI	Beijing Global Crown Technology Co., Ltd.
Dapeng Yang	AVIC Shenyang Aircraft Design and Research Institute	Qi Zhang	AVIC Shenyang Aircraft Design and Research Institute
Jiaxin Li	Sun Yat-sen Univ.	Yongyi Liu	AVIC Shenyang Aircraft Design and Research Institute
Shuaibin An	Dalian Univ. of Technology	Wentie Lai	Beijing Global Crown Technology Co., Ltd.
Guan Wang	Dalian Univ. of Technology	Jilong Lin	Beijing Global Crown Technology Co., Ltd.
Kai Liu	Dalian Univ. of Technology	Yan Luo	Beijing Global Crown Technology Co., Ltd.
11:35-11:43	B9.11	B10 2nd Floor VIP Room 2	
1068 <i>Neural network adaptive vibration suppression architecture for distributed actuators</i>		Hybrid GNC 2 层 贵宾厅 2	
Zijun Gu	Dalian Univ. of Technology	Chairs: Yongxi Lyu	
Jianan Qin	AVIC Shenyang Aircraft Design and Research Institute	10:15-10:23	B10.1
Danwei Li	AVIC Shenyang Aircraft Design and Research Institute	618 <i>Practical fixed-time fault-tolerant control for aircraft subject to actuator faults</i>	
Kai Liu	Dalian Univ. of Technology	Yixin Jiao	Northwestern Polytechnical Univ.
Qingfeng Zhao	Dalian Univ. of Technology	Jingping Shi	Northwestern Polytechnical Univ.
Ming Yan	Dalian Univ. of Technology	Yongxi Lyu	Northwestern Polytechnical Univ.
Shaoze Huo	Dalian Univ. of Technology	Yunyan Wu	AVIC Xi'an Flight Automatic Control Research Institute
		10:23-10:31	B10.2
		625 <i>A loop closure localization algorithm based on image features</i>	

Boyang Gao	Northwestern Polytechnical Univ.	Yongxi Lyu	Northwestern Polytechnical Univ.
Minkun Zhao	AVIC Xi'an Flight Automatic Control Research Institute	11:19-11:27	B10.9
Hongyuan Zhu	AVIC Chengdu Aircraft Design and Research Institute	1071	<i>Aerodynamic parameter identification of complex configuration aircraft based on adaptive zero-phase filtering and constrained least squares</i>
Keyan Hu	Northwestern Polytechnical Univ.	Xinyi Zhang	Northwestern Polytechnical Univ.
Xiaoxiong Liu	Northwestern Polytechnical Univ.	Yongxi Lyu	Northwestern Polytechnical Univ.
10:31-10:39	B10.3	Jingping Shi	Northwestern Polytechnical Univ.
686	<i>Research on dynamical boundary solving methods based on manifold theory</i>	Wangyi Zhou	AVIC Flight Automatic Control Research Institute
Shipeng wang	Northwestern Polytechnical Univ.	11:27-11:35	B10.10
Dong Zhang	AVIC Shenyang Aircraft Design and Research Institute	1081	<i>A two step neural network based wave-off decision method for carrier-based aircraft under multiple fault conditions</i>
Xin Tian	Northwestern Polytechnical Univ.	Yuyan Cao	AVIC Xi'an Flight Automatic Control Research Institute
Jingping Shi	Northwestern Polytechnical Univ.	Longzhen Hu	AVIC Xi'an Flight Automatic Control Research Institute
Yongxi Lyu	Northwestern Polytechnical Univ.	Xiaofeng Sun	AVIC Xi'an Flight Automatic Control Research Institute
10:39-10:47	B10.4	Cihang Wu	AVIC Xi'an Flight Automatic Control Research Institute
699	<i>Analysis of aircraft high-angle-of-attack characteristics and spin recovery based on BACTM</i>	Ke Yu	AVIC Xi'an Flight Automatic Control Research Institute
Daifu Liang	Northwestern Polytechnical Univ.	11:35-11:43	B10.11
Zhihui Du	Northwestern Polytechnical Univ.	1084	<i>Adaptive flight control for the tailless blended-wing-body aircraft</i>
Jingping Shi	Northwestern Polytechnical Univ.	Ruoyi Jiao	Chinese Flight Test Establishment
Xiaobo Qu	Northwestern Polytechnical Univ.	Yongxi Lyu	Northwestern Polytechnical Univ.
Yongxi Lyu	Northwestern Polytechnical Univ.	Jingping Shi	Northwestern Polytechnical Univ.
10:47-10:55	B10.5	11:43-11:51	B10.12
748	<i>Longitudinal control of fixed-canted rotorcraft in rotor mode using ADRC</i>	1182	<i>Decentralized cooperative target tracking of multi-UAVs based on sliding mode guidance and phase adjustment</i>
Jiaping Li	Northwestern Polytechnical Univ.	Yihua Hu	Aviation Industry Development Research Center of China
Jingping Shi	Northwestern Polytechnical Univ.	Yongchuan Yang	Northwestern Polytechnical Univ.
Xiaobo Qu	Northwestern Polytechnical Univ.	Jingping Shi	Northwestern Polytechnical Univ.
Yongxi Lyu	Northwestern Polytechnical Univ.	Yongxi Lyu	Northwestern Polytechnical Univ.
Dongxiu Qiu	COMAC Shanghai Aircraft Design and Research Institute	Gengnong Li	Northwestern Polytechnical Univ.
10:55-11:03	B10.6	11:51-11:59	B10.13
807	<i>Research on formation transformation control methods for aircraft in tight formation</i>	1515	<i>Transition optimized control of a quad-tilt ducted UAV</i>
Ameng Xu	AVIC First Aircraft Design and Research Institute	Yebin Ni	Northwestern Polytechnical Univ.
Xinhui Zhang	AVIC First Aircraft Design and Research Institute	Daixin Xu	Northwestern Polytechnical Univ.
Yunpeng Cai	Northwestern Polytechnical Univ.	Xiaobo Qu	Northwestern Polytechnical Univ.
Xiaoxiong Liu	Northwestern Polytechnical Univ.	Yongxi Lyu	Northwestern Polytechnical Univ.
11:03-11:11	B10.7	Jingping Shi	Northwestern Polytechnical Univ.
842	<i>Height protection for wind tunnel free-flight of low-aspect-ratio flying wings at high angle of attack</i>	11:59-12:07	B10.14
Yan Liu	AVIC Shenyang Aircraft Design and Research Institute	1519	<i>ArUco marker board-based reconfigurable control for aircraft with control surface jam fault</i>
Zhijie Liu	Northwestern Polytechnical Univ.	Weidong Yu	AVIC Shenyang Aircraft Design and Research Institute
Xiaobo Qu	Northwestern Polytechnical Univ.	Xianghua Zhai	Southwest China Research Institute of Electronic Equipment
Jingping Shi	Northwestern Polytechnical Univ.	YinXiang Li	Northwestern Polytechnical Univ.
Yongxi Lyu	Northwestern Polytechnical Univ.	Jintao Wu	Northwestern Polytechnical Univ.
11:11-11:19	B10.8	Jingping Shi	Northwestern Polytechnical Univ.
1042	<i>Dual-stream fusion network for air target tactical intention recognition in air combat</i>	Yongxi Lyu	Northwestern Polytechnical Univ.
GengNong Li	Northwestern Polytechnical Univ.	Zhihui Du	Northwestern Polytechnical Univ.
Xiaochen Lyu	Northwestern Polytechnical Univ.		
Jingping Shi	Northwestern Polytechnical Univ.		

12:07-12:15	B10.15		
1542 <i>Design and flight test verification of auto GCAS for UAVs</i>			
Fuxiang Qiao	AVIC Xi'an Flight Automatic Control Research Institute	Jinxiang Wang	Beihang Univ.
Jiahang Lai	AVIC Xi'an Flight Automatic Control Research Institute	Xiaopeng Hou	Beihang Univ.
Chen Zhou	AVIC Xi'an Flight Automatic Control Research Institute	Jichao Dong	Aviation Data Communication Corporation
Shaomin He	AVIC Xi'an Flight Automatic Control Research Institute	Xiuqing Li	Tianjin 764 Communication and Navigation Technology Co., Ltd.
Yige Luo	AVIC Xi'an Flight Automatic Control Research Institute	Zhipeng Wang	Beihang Univ.
Jianjun Huang	AVIC Xi'an Flight Automatic Control Research Institute	Kun Fang	Beihang Univ.
B12	Poster Area	10:15-12:15	B12.6
Poster Session	海报区	1592 <i>面向月表复杂工况的轻量化视惯多速率滤波算法</i>	
Chairs: Hang Liu		Yuhang Liu	Innovation Academy for Microsatellites, CAS
10:15-12:15	B12.1	Xiawang Xia	Innovation Academy for Microsatellites, CAS
912 基于 CNN-MLP 的 Hessian-PSO 室内多源融合三维定位算法			
Fang Liu	Shenyang Ligong Univ.	10:15-12:15	B12.7
Shuai Liu	Shenyang Ligong Univ.	1594 <i>Multi-vehicle INS/UWB factor graph optimization cooperative localization method based on residual detection and damping iteration</i>	
Yanan Liu	Shenyang Ligong Univ.	Zhan Gao	National Univ. of Defense Technology
10:15-12:15	B12.2	Guo Wei	National Univ. of Defense Technology
1017 <i>Adaptive-rate factor graph integrated navigation modeling and gyroscope bias enhancement method for airborne measured data</i>			
Pengfei Yang	Beihang Univ.	Chengzhi Hou	National Univ. of Defense Technology
Li Fu	Beihang Univ.	Jing Wang	National Univ. of Defense Technology
Jiyao Zhu	Beihang Univ.	Yaodong Liao	National Univ. of Defense Technology
Jiajun Li	Beihang Univ.	Chilu Zhang	National Univ. of Defense Technology
10:15-12:15	B12.3	Chunfeng Gao	National Univ. of Defense Technology
1117 基于光流法的惯性导航静基座对准晃动检测方法			
Wanrui Li	AVIC Xi'an Flight Automatic Control Research Institute	10:15-12:15	B12.8
Jinglian Cao	AVIC Xi'an Flight Automatic Control Research Institute	334 <i>A hybrid Kalman filter and LSTM model with residual learning for ship trajectory prediction</i>	
Shaolong Song	AVIC Xi'an Flight Automatic Control Research Institute	Cunyi Hu	Xi'an Modern Control Technology Research Institute
10:15-12:15	B12.4	Rui Pan	Xi'an Modern Control Technology Research Institute
1499 <i>Fusion and integrity method for autonomous landing of civil aircraft</i>			
Qixuan Sun	AVIC Xi'an Flight Automatic Control Research Institute	Xindi Wang	Xi'an Modern Control Technology Research Institute
Yazhou Yue	AVIC Xi'an Flight Automatic Control Research Institute	Haochun Miao	Xi'an Modern Control Technology Research Institute
Chengkang Yao	AVIC Xi'an Flight Automatic Control Research Institute	Jinping Li	Xi'an Modern Control Technology Research Institute
Xiaodong Zhang	AVIC Xi'an Flight Automatic Control Research Institute	10:15-12:15	B12.9
Nan Liu	AVIC Xi'an Flight Automatic Control Research Institute	703 天基红外卫星调度与测量时延的目标跟踪	
Zhiyu Yin	AVIC Xi'an Flight Automatic Control Research Institute	Yao Hou	Beihang Univ.
Wenbo Suo	AVIC Xi'an Flight Automatic Control Research Institute	Chenzhe Liu	Beihang Univ.
10:15-12:15	B12.5	Yandong Wang	Beihang Univ.
		10:15-12:15	B12.10
		1215 <i>Adaptive GNSS interference source localization method based on convolutional neural networks</i>	
		Jiuyang Hou	Beijing Institute of Technology
		Xu Chen	Beijing Institute of Technology
		Tao Feng	Research Institute of Highway Ministry of Transport
		Huajian Li	Beijing Institute of Technology
		10:15-12:15	B12.11
		1222 <i>Design of airborne star sensor for all-time detection</i>	
		Boya Wang	AVIC Xi'an Flight Automatic Control Research Institute
		Nan Xiao	AVIC Xi'an Flight Automatic Control Research Institute

Xiaodong Hu	Control Research Institute	Junping Chen	COMAC Shanghai Aircraft Flight
	AVIC Xi'an Flight Automatic		Test Engineering Co., Ltd.
Control Research Institute		Jiang Wu	
COMAC Shanghai Aircraft Flight		Test Engineering Co., Ltd.	
10:15-12:15	B12.12	Shu Yang	Northwestern Polytechnical Univ.
1333 NMPC-based trajectory tracking control of non-center point		10:15-12:15	B12.18
on differential-drive wheeled robot		371 电动复合翼无人机垂直降落抗风控制方法	
Zhenhang Ming	Linyi Univ.	Mingming Tian	AVIC Xi'an Flight Automatic
Ancai Zhang	Linyi Univ.	Control Research Institute	
Quan Yuan	Linyi Univ.	Zhao Yang	AVIC Xi'an Flight Automatic
Junyao Yu	Linyi Univ.	Control Research Institute	
Wenbo Zheng	Linyi Univ.	Dongliang Song	AVIC Xi'an Flight Automatic
10:15-12:15	B12.13	Control Research Institute	
1512 "GoldenFuture"— space station space debris monitoring		Yueping Wang	AVIC Xi'an Flight Automatic
and identification system		Control Research Institute	
Shizheng Zhou	Beihang Univ.	Guoqiang Yang	AVIC Xi'an Flight Automatic
Ziheng Xu	Beihang Univ.	Control Research Institute	
Yunhan Wang	Beihang Univ.	10:15-12:15	B12.19
Jiacheng Peng	Beihang Univ.	456 基于衰减记忆卡尔曼滤波的甲板运动预估策略	
Wenxin Huang	Beihang Univ.	Xudong Huang	AVIC Xi'an Flight Automatic
Xianduo Wang	Beihang Univ.	Control Research Institute	
Runze Zhang	Beihang Univ.	Zixia Wen	AVIC Xi'an Flight Automatic
Shumin Jian	Beihang Univ.	Control Research Institute	
Chengcai Wang	Beihang Univ.	Qianwei Yang	AVIC Xi'an Flight Automatic
10:15-12:15	B12.14	Control Research Institute	
238 Monte carlo simulation of an automatic landing system and		Mingming Tian	AVIC Xi'an Flight Automatic
its quantitative analysis		Control Research Institute	
Haonan Xu	COMAC Shanghai Aircraft Design	Guanlin Li	AVIC Xi'an Flight Automatic
Hongxin Wang	and Research Institute	Control Research Institute	
	COMAC Shanghai Aircraft Design	Control Research Institute	
Qinyu Wei	and Research Institute	10:15-12:15	B12.20
	COMAC Shanghai Aircraft Design	529 Actuator dynamic rate-optimized control allocation for tilt-	
Chang Liu	and Research Institute	rotor tri-copters	
	COMAC Shanghai Aircraft Design	Zizhuo Cai	Beihang Univ.
Ziqin Xu	and Research Institute	Pei Chi	Beihang Univ.
	COMAC Shanghai Aircraft Design	Yince Gao	Beihang Univ.
10:15-12:15	B12.15	Zichun Guo	Beihang Univ.
239 Geometric decoupling and attitude control for dual tilt-rotor		Qidi Wang	Beihang Univ.
tri-copter		Yiyu Wang	Beihang Univ.
Shaoqiu Deng	Jiangxi Guoke Defence Group Co., Ltd.	Zhiheng Dai	Beihang Univ.
Ruizhi Jiang	Jiangxi Guoke Defence Group Co., Ltd.	Yingjian Xu	Beihang Univ.
Zhiyan Zhang	Jiangxi Guoke Group Co., Ltd.	Xinglu Xia	Beihang Univ.
Zichun Guo	Beihang Univ.	Yingxun Wang	Beihang Univ.
Bahetinuier Hasiyati	Beihang Univ.	10:15-12:15	B12.21
Yingjian Xu	Beijing Aero King Technology Co., Ltd.	617 弹性飞行器静态输出反馈降阶控制	
Gaoyu Liang	Bauman Moscow State Technical Univ.	Ting Yang	Beijing Aerospace Technology Institute
Zizhuo Cai	Beihang Univ.	Shu Yang	Northwestern Polytechnical Univ.
10:15-12:15	B12.16	Jian Guo	Beijing Aerospace Technology Institute
245 基于可控性分析的固定翼飞机 S 型飞行下的姿态变换设计		10:15-12:15	B12.22
Bowen Su	Univ. of Electronic Science and	677 Unified control allocation for a novel bi-copter with center of	
Xiaoping Chen	Technology of China	gravity uncertainty	
	Univ. of Electronic Science and	Yiyu Wang	Beihang Univ.
Yuankai Li	Technology of China	Xinglu Xia	Beihang Univ.
	Univ. of Electronic Science and	Zizhuo Cai	Beihang Univ.
Technology of China		Qidi Wang	Beihang Univ.
10:15-12:15	B12.17	Zhiheng Dai	Beihang Univ.
353 基于奇异摄动的非仿射系统控制分配		Zichun Guo	Beihang Univ.

Yingxun Wang	Beihang Univ.	1719 Flare trajectory planning and precision control for category III autoland	
10:15-12:15	B12.23	Ranran Wang	AVIC Xi'an Flight Automatic Control Research Institute
735 Direct lift landing control for carrier-based aircraft via active disturbance rejection control and sliding mode control		Yueping Wang	AVIC Xi'an Flight Automatic Control Research Institute
Zhihao Zhang	Beijing Univ. of Technology	Tianpeng Huang	AVIC Xi'an Flight Automatic Control Research Institute
Xiangyin Zhang	Beijing Univ. of Technology	Tianlun Huan	AVIC Xi'an Flight Automatic Control Research Institute
10:15-12:15	B12.24	Shiyu Zuo	AVIC Xi'an Flight Automatic Control Research Institute
813 Research on intelligent fault-tolerant control technology for control surface loss fault of carrier-based aircraft		Shaoping Chang	AVIC Xi'an Flight Automatic Control Research Institute
Yang Zhang	Naval Academy	10:15-12:15	B12.31
Xi Wang	Naval Academy	1717 A helicopter velocity protection algorithm based on cascaded potential functions and explicit model following	
Yi Zhou	Naval Academy	Renqing Zhai	AVIC Xi'an Flight Automatic Control Research Institute
Liting Song	Naval Aeronautical Univ.	Mingzhuang Zhang	AVIC Xi'an Flight Automatic Control Research Institute
Jiaxing Wang	AVIC Shenyang Aircraft Design and Research Institute	Linyi Zhi	Aircraft Strength Research Institute of China
Dapeng Zhou	AVIC Shenyang Aircraft Design and Research Institute	10:15-12:15	B12.32
10:15-12:15	B12.25	495 QAR data-driven GNSS spoofing detection using random forest	
1010 Sliding mode with time delay control for aero-engine		Dikai Yang	China Academy of Civil Aviation Science and Technology
Jing Qin	Northwestern Polytechnical Univ.	Jing Guo	China Academy of Civil Aviation Science and Technology
Yingzhi Huang	Northwestern Polytechnical Univ.	Xuhui Wang	China Academy of Civil Aviation Science and Technology
10:15-12:15	B12.26	Yubin Xu	China Academy of Civil Aviation Science and Technology
1470 Research on attitude control of automatic flight control system based on linear active disturbance rejection control		Xiangdong Xun	China Academy of Civil Aviation Science and Technology
Furui Yu	AVIC Shenyang Aircraft Design and Research Institute	Fanrong Sun	Nanjing Univ. of Aeronautics and Astronautics
Yanguo Hu	AVIC Shenyang Aircraft Design and Research Institute	10:15-12:15	B12.33
Xiaoye Wang	AVIC Shenyang Aircraft Design and Research Institute	569 Enhanced flight control for a large receiver aircraft	
Jialiang Zheng	AVIC Shenyang Aircraft Design and Research Institute	Siyuan Cai	AVIC Xi'an Flight Automatic Control Research Institute
Ruiyang Ban	AVIC Shenyang Aircraft Design and Research Institute	Yang Meng	AVIC Xi'an Flight Automatic Control Research Institute
10:15-12:15	B12.27	Yuyan Cao	AVIC Xi'an Flight Automatic Control Research Institute
1642 面向飞翼布局质心过载减缓的舵面分配与增稳控制研究		Erzhuo Niu	AVIC Xi'an Flight Automatic Control Research Institute
Peng Tang	Beihang Univ.	Ke Yu	AVIC Xi'an Flight Automatic Control Research Institute
Enci Bian	Beihang Univ.	10:15-12:15	B12.34
Yanshan Shen	Beihang Univ.	377 Carrier-based aircraft approach: dynamic landing point prediction and safety assessment	
10:15-12:15	B12.28	Bing Wan	Naval Aviation Univ.
1644 A robust integrated guidance and control scheme based on linear time-varying model predictive control combined with extended state observer		Wei Han	Naval Aviation Univ.
Yangyang Deng	National Univ. of Defense Technology	Zishuang Pan	Naval Aviation Univ.
Wanying Xu	National Univ. of Defense Technology	Shansong Song	Naval Aviation Univ.
Yongbin Zheng	National Univ. of Defense Technology		
Peisen Zhu	National Univ. of Defense Technology		
10:15-12:15	B12.29		
1715 Modeling and landing control of a civil aircraft-landing gear integrated system			
Junping Chen	COMAC Shanghai Aircraft Flight Test Engineering Co., Ltd.		
Jiang Wu	COMAC Shanghai Aircraft Test Flight Engineering Co., Ltd.		
Shu Yang	Northwestern Polytechnical Univ.		
Yunhe Qiu	Northwestern Polytechnical Univ.		
10:15-12:15	B12.30		

10:15-12:15	B12.35	Control Research Institute
655 <i>Optimized design of drop guidance system for aviation fire fighting with airworthiness certification</i>		
Jinze Song	COMAC Shanghai Aircraft Design and Research Institute	
Kezhi Zhang	COMAC Shanghai Aircraft Design and Research Institute	
Yabin Dang	COMAC Shanghai Aircraft Design and Research Institute	
Xuyin Yao	COMAC Shanghai Aircraft Design and Research Institute	
Yang Wu	COMAC Shanghai Aircraft Design and Research Institute	
10:15-12:15	B12.36	
889 <i>Dynamic threat assessment framework of aerial targets under continuous data loss and type misidentification</i>		
Changcheng Wang	AVIC Shenyang Aircraft Design and Research Institute	
Pengjiao Li	AVIC Shenyang Aircraft Design and Research Institute	
Xiaodi Yang	Shanghai Jiao Tong Univ.	
10:15-12:15	B12.37	
1448 <i>False-target detection via neural networks with multidimensional statistical features</i>		
Li Wan	Beijing Institute of Electronic System Engineering	
Meng Sun	Huazhong Univ. of Science and Technology	
Yang Li	Beijing Institute of Electronic System Engineering	
10:15-12:15	B12.38	
12 <i>Control strategy for engaging the dog-clutch based on the driver's intention</i>		
Yang Gao	Aurobay(Ningbo) Intelligent Technology Co., Ltd.	
Hao Hu	Aurobay(Ningbo) Intelligent Technology Co., Ltd.	
Yiqiang Liu	Aurobay(Ningbo) Intelligent Technology Co., Ltd.	
Jiangfeng Liu	Aurobay(Ningbo) Intelligent Technology Co., Ltd.	
Congqian Wang	Aurobay(Ningbo) Intelligent Technology Co., Ltd.	
Dongyang Xin	Aurobay(Ningbo) Intelligent Technology Co., Ltd.	
10:15-12:15	B12.39	
220 <i>Modeling and analysis of dynamic damping characteristics for flight control actuators</i>		
Peng Liu	AVIC Xi'an Flight Automatic Control Research Institute	
Jiahang Zhou	AVIC Xi'an Flight Automatic Control Research Institute	
Yixue Hu	AVIC Xi'an Flight Automatic Control Research Institute	
Linyuan Dong	AVIC Xi'an Flight Automatic Control Research Institute	
Wei Liu	AVIC Xi'an Flight Automatic	
10:15-12:15	B12.40	
1372 <i>Influence of isolator layout on the dynamic characteristics of an airborne optoelectronic radar system</i>		
Shihui Wu	Lanzhou Jiaotong Univ.	
Zhigang Chen	Beijing Tsinghua Institute for Frontier Interdisciplinary Innovation	
Cheng Su	Lanzhou Jiaotong Univ.	
Zhigang Zhao	Lanzhou Jiaotong Univ.	
Jihong Zhu	Tsinghua Univ.	
10:15-12:15	B12.41	
7 <i>A ground-based semi-physical method for multi-spacecraft cooperative observation of space spinning targets</i>		
Jinzheng Mu	Shanghai Aerospace Control Technology Institute	
He Zhang	Shanghai Aerospace Control Technology Institute	
10:15-12:15	B12.42	
193 <i>Integrated Attitude and Orbit Control Using Four Thrusters with Optimal Pulse Width Allocation</i>		
Jinjin Zhu	Shanghai Aerospace Control Technology Institute	
Mengxuan Wu	Shanghai Aerospace Control Technology Institute	
Changtao Qin	Shanghai Aerospace Control Technology Institute	
Rongfeng Lin	Shanghai Aerospace Control Technology Institute	
10:15-12:15	B12.43	
212 <i>Distance-aware monocular spacecraft pose estimation via a top-down deep learning network</i>		
Linze Chen	Southeast Univ.	
Zeyuan Li	Southeast Univ.	
Kelin Lu	Southeast Univ.	
10:15-12:15	B12.44	
362 <i>Multi-frequency anti-aliasing rate damping control analysis for satellites under extreme angular velocity</i>		
Xiwang Xia	Innovation Academy for Microsatellites, CAS	
Fanxing Meng	Harbin Institute of Technology	
Han Du	Shanghai Aerospace Systems Engineering Research Institute	
10:15-12:15	B12.45	
374 <i>Simulation analysis of high-precision orbit determination for lunar satellite using satellite-to-ground laser ranging</i>		
Xiao Zhang	Harbin Institute of Technology	
10:15-12:15	B12.46	
419 <i>Equinoctial Q-law control with pointing constraint for low-thrust orbit transfer</i>		
Chao Duan	Beijing Institute of Control Engineering	
Xiangyu Tang	Beijing Institute of Control Engineering	
Liang Zhou	Beijing Institute of Control Engineering	
Shuo Wang	Beijing Institute of Control Engineering	
Qiang Yu	Beijing Institute of Control Engineering	
Jianxin Guo	Beijing Institute of Control Engineering	
10:15-12:15	B12.47	
442 <i>Analysis on lateral circuitous abilities based on L-V profile for</i>		

hy-personic vehicles

Siyang Wang	Space Engineering Univ.
Jianhua Wang	Space Engineering Univ.
Yuanwen Cai	Space Engineering Univ.
Meijun Yue	Space Engineering Univ.
Zhen Wang	Space Engineering Univ.
10:15-12:15	B12.48

581 Fixed-magnitude single-impulse orbital interception based on reachable domain and PSO

Yunxiao Yang	Nanjing Univ. of Aeronautics and Astronautics
Feng Yu	Nanjing Univ. of Aeronautics and Astronautics
10:15-12:15	B12.49

636 Comparative study on magnetic attitude control methods for bias momentum satellites

Xiwang Xia	Innovation Academy for Microsatellites, CAS
Sibo Wang	Harbin Institute of Technology
Han Du	Shanghai Aerospace Systems Engineering Research Institute
10:15-12:15	B12.50

827 Attitude and orbit control design and on-orbit test of satellites with large-scale flexible dual-axis solar panels

Qirui Liu	Beijing Institute of Control Engineering
Jiawei Tao	Beijing Institute of Control Engineering
Yu Zhang	Beijing Institute of Control Engineering
Wenlan Tang	Beijing Institute of Control Engineering
Jie Yang	Beijing Institute of Control Engineering
Tong Luo	Beijing Institute of Control Engineering
10:15-12:15	B12.51

920 Reliable monocular spacecraft pose estimation with automatic semantic sparse priors and coverage-aware refinement

Xiayu Chen	Shanghai Jiao Tong Univ.
Zeyu Kang	COMAC Shanghai Aircraft Design and Research Institute
Shuai Yuan	Shanghai Jiao Tong Univ.
Qiang Shen	Shanghai Jiao Tong Univ.
10:15-12:15	B12.52

1012 基于仅光学观测的地月空间非开普勒轨道极短弧数据关联分析方法

Hao Yu	Nanjing Univ. of Aeronautics and Astronautics
Ze Zheng Dong	Nanjing Univ. of Aeronautics and Astronautics
Youtao Gao	Nanjing Univ. of Aeronautics and Astronautics
10:15-12:15	B12.53

1025 On-orbit calibration of spacecraft center of mass based on the lever arm effect

Chao Xu	Beijing Institute of Control Engineering
Chengyu Zhang	Beijing Institute of Control Engineering
Jinchang Hu	Beijing Institute of Control Engineering
Xiangyu Huang	Beijing Institute of Control Engineering
10:15-12:15	B12.54

1029 A virtual-formation-based maintenance method for high-

precision repeat-track regressive frozen orbits

Tong Luo	Beijing Institute of Control Engineering
10:15-12:15	B12.55

1038 gps-based baseline determination and time synchronization for GRACE-FO formation using bi-directional Kalman filtering

Yixiao Huang	Technology and Engineering Center for Space Utilization, CAS
Xuanmao Wang	Technology and Engineering Center for Space Utilization, CAS
Yimin Lyu	Technology and Engineering Center for Space Utilization, CAS
Xinyuan Mao	Technology and Engineering Center for Space Utilization, CAS
10:15-12:15	B12.56

1057 Integral sliding mode based non-affine ascent trajectory tracking for solid rocket via differential inclusions

Zhengxiang Sun	Beijing Institute of Space Long March Vehicle
Yipeng Liu	Beijing Institute of Space Long March Vehicle
Shiyao Li	Beijing Institute of Space Long March Vehicle
10:15-12:15	B12.57

1070 Orbit determination and observability analysis of NRHO spacecraft based on inter-satellite link

Yifan Duan	Technology and Engineering Center for Space Utilization, CAS
Keman Li	Technology and Engineering Center for Space Utilization, CAS
Ruotong Sun	Technology and Engineering Center for Space Utilization, CAS
Xinyuan Mao	Technology and Engineering Center for Space Utilization, CAS
10:15-12:15	B12.58

1129 Mixed sensitivity PS/T H^∞ control for attitude stabilization of reusable launch vehicle

Jingheng Feng	Beijing Institute of Technology
Ning Dong	Beijing Institute of Technology
Shihang Li	China Academy of Space Technology
Xiaoyu Lang	Beijing Institute of Technology
Xiangdong Liu	Beijing Institute of Technology
10:15-12:15	B12.59

1187 Stochastic backstepping control barrier functions: a closed-form solution for attitude control on SO(3)

Junhao Hou	Shanghai Jiao Tong Univ.
Qiang Shen	Shanghai Jiao Tong Univ.
10:15-12:15	B12.60

1254 Orbital maneuver study of high-low thrust combined multimodal water propulsion for on-orbit servicing

Xinyun Chen	Innovation Academy for Microsatellites, CAS
Jiaqing Chen	Innovation Academy for Microsatellites, CAS
Yuebo Wang	Innovation Academy for

	Microsatellites, CAS	Lipeng Chai	DFH Satellite Co., Ltd.
Liangjun Song	Northwestern Polytechnical Univ.	Minghu Li	DFH Satellite Co., Ltd.
Tianshu Wang	Tianjin Univ.	Xi Cai	DFH Satellite Co., Ltd.
Zibing Qin	Aether Space (Shanghai) Technology Co., Ltd.	Mingying Huo	Harbin Institute of Technology
Yonghe Zhang	Innovation Academy for Microsatellites, CAS	Ming Li	DFH Satellite Co., Ltd.
Chengyu Ma	Innovation Academy for Microsatellites, CAS	10:15-12:15	B12.66
10:15-12:15	B12.61	1601	<i>Improving navigation performance for geostationary orbit users based on inter-satellite links</i>
1445	<i>Unpowered aircraft emergency landing: a new planning and guidance method</i>	Keman Li	Univ. of Chinese Academy of Sciences
Yanpeng Zhao	Air Force Medical Univ.	Leizheng Shu	Univ. of Chinese Academy of Sciences
Guoshan Yu	Beijing Institute of Aerospace Control Devices	Xinyuan Mao	Univ. of Chinese Academy of Sciences
Weiping Bu	Air Force Medical Univ.	Wei Zhang	Univ. of Chinese Academy of Sciences
Yan Jiang	Air Force Medical Univ.	10:15-12:15	B12.67
Rong Lin	Air Force Medical Univ.	1671	<i>Trajectory optimization design for multi-stage launch vehicle based on adaptive genetic algorithm</i>
10:15-12:15	B12.62	Meijun Yue	Space Engineering Univ.
1481	<i>Domain randomization for adversarial robustness in orbital collision avoidance: a deep reinforcement learning approach</i>	Jianhua Wang	Space Engineering Univ.
Pouya Latifiyan	Beihang Univ.	Yuanwen Cai	Space Engineering Univ.
Aparna Dongale	MIT Academy of Engineering	Bingqin Liu	Space Engineering Univ.
Maria Chowdhury	Univ. of the Potomac	Haoran Du	Space Engineering Univ.
Lucky Bose	Key Laboratory of Spacecraft Design Optimization & Dynamic Simulation Technologies	Bohan Jia	Space Engineering Univ.
10:15-12:15	B12.63	Siyang Wang	Space Engineering Univ.
1561	太阳敏感器与陀螺组合定姿 EKF 协方差参数优化研究	Zhen Wang	Space Engineering Univ.
Chengjie Tong	Innovation Academy for Microsatellites, CAS	Zetian Du	Space Engineering Univ.
Han Du	Shanghai Aerospace Systems Engineering Research Institute	10:15-12:15	B12.68
Xiwang Xia	Innovation Academy for Microsatellites, CAS	1682	<i>Learning-based spacecraft attitude control with active pointing ultra-quiet platforms: a gaussian process approach</i>
Keke Zhang	Innovation Academy for Microsatellites, CAS	Jiliang Song	Beijing Institute of Control Engineering
10:15-12:15	B12.64	Liang Tang	Beijing Institute of Control Engineering
1582	<i>Orbital configuration analysis for high-precision cislunar time reference</i>	Renjian Hao	Beijing Institute of Control Engineering
Shuanglin Li	Univ. of Chinese Academy of Sciences	Jianfa Wu	Beijing Institute of Control Engineering
Rongchang Jiao	Univ. of Chinese Academy of Sciences	Zhiwei Hao	Beijing Institute of Control Engineering
Jinghui Pu	Technology and Engineering Center for Space Utilization, CAS	10:15-12:15	B12.69
Xuzhi Li	Technology and Engineering Center for Space Utilization, CAS	482	<i>An automated operation mode for ascent stage measurement of vehicle measuring based on two-level minimum functional blocks</i>
Yuling Geng	Beijing Aerospace Control Center	Guanghui Ren	Unit 63819 of the PLA
Zichen Huang	Beijing Aerospace Control Center	Long Chang	Unit 63819 of the PLA
Wenbin Wang	Technology and Engineering Center for Space Utilization, CAS	Zhiguo Tian	Unit 63819 of the PLA
10:15-12:15	B12.65	Xin Tu	Unit 63819 of the PLA
1600	<i>Multi-satellite control strategy of configuration establishing for high earth orbit constellations with electric propulsion based on thrust arc offset</i>	10:15-12:15	B12.70
Yue Liu	DFH Satellite Co., Ltd.	301	<i>Online intensity-aware registration of 3D imaging sonar point cloud</i>
		Shiqi Che	Beihang Univ.
		Wenxin Liu	Beihang Univ.
		Jiaxu Pi	Beihang Univ.
		Yijie Liu	Beihang Univ.
		Fa Chen	Suzhou Soundtech Oceanic Instrument Ltd.
		Bin Qian	Suzhou Soundtech Oceanic Instrument Ltd.
		Lei Guo	Beihang Univ.
		10:15-12:15	B12.71
		713	<i>Heave motion measurement algorithm with lever-arm compensation for off-center monitoring points on marine platforms</i>
		Xiaofeng Wei	Harbin Institute of Technology

Wei Gao	Harbin Institute of Technology	277 Aerodynamic parametric improvement and multibody inertial-coupling modeling of a variable-sweep flight vehicle	
Yiming Lu	Harbin Institute of Technology	Yuxuan Tang	Northwestern Polytechnical Univ.
Baojin Ping	Harbin Institute of Technology	Min Zhou	Northwestern Polytechnical Univ.
Hong Zhu	Harbin Institute of Technology	Ruyue Jiang	Northwestern Polytechnical Univ.
Feng Shen	Harbin Institute of Technology	10:15-12:15	B12.78
10:15-12:15	B12.72	308 Residual PINN for cooperative guidance with FOV-constrained interception	
981 冷原子干涉角速度测量光路系统设计与实现		Fangzhou Jia	Beijing Institute of Technology
Zexin Wang	Division of Mechanics and Acoustics Metrology, National Institute of Metrology	Qunli Xia	Beijing Institute of Technology
Wen Ye	Division of Mechanics and Acoustics Metrology, National Institute of Metrology	Yangxin Liu	Beijing Institute of Technology
Wenjie Xu	Huazhong Univ. of Science and Technology	Qiuqiu Wen	Beijing Institute of Technology
Jun Cheng	Huazhong Institute of Electro-Optics	10:15-12:15	B12.79
10:15-12:15	B12.73	395 A multi-constrained predictor-corrector guidance method for terminal velocity control	
1245 Deep sea precise positioning augmented by large LEO communication constellations		Haoyuan Li	Xi'an Modern Control Technology Research Institute
Haoyu Lin	Beihang Univ.	Yajun Li	Xi'an Modern Control Technology Research Institute
Haorui Yang	Beihang Univ.	Shihao Xu	Xi'an Modern Control Technology Research Institute
Yilu Wang	Beihang Univ.	Jing Lu	Xi'an Modern Control Technology Research Institute
Tianxiao Luo	Beihang Univ.	Yutan Yan	Xi'an Modern Control Technology Research Institute
Yixiao Wang	Beihang Univ.	10:15-12:15	B12.80
Bailu Pan	Beihang Univ.	555 Time-varying weighting function-based guidance law for maneuvering target interception	
Zhen Li	Beihang Univ.	Xin Li	Beijing Institute of Technology
10:15-12:15	B12.74	Qiuqiu Wen	Beijing Institute of Technology
1473 Terrain matching region selection algorithm based on contrastive clustering		Xiangdong Liu	Beijing Institute of Technology
Kaifeng Hu	Huazhong University of Science and Technology	Yuxiang Chang	Beijing Institute of Technology
Hai Xu	Huazhong University of Science and Technology	10:15-12:15	B12.81
Sheng Zhong	Huazhong University of Science and Technology	605 Impact angle constrained terminal guidance method based on iterative velocity prediction	
10:15-12:15	B12.75	Junjie Ai	Beijing Institute of Technology
1202 Crawling control of underwater quadruped robots on uneven terrain		Qiuqiu Wen	Beijing Institute of Technology
Guanqiao Chen	Wuhan Second Ship Design and Research Institute	Zheng Liu	Beijing Institute of Technology
Kang Zhang	Wuhan Second Ship Design and Research Institute	Jiahui Zhang	Beijing Institute of Technology
Zhang Hao	Wuhan Second Ship Design and Research Institute	Wenjie Wang	Beijing Institute of Technology
Xiawei Guan	Wuhan Second Ship Design and Research Institute	10:15-12:15	B12.82
10:15-12:15	B12.76	644 In-flight alignment and integrated navigation algorithm of hypervelocity projectile in the launch-centered earth-fixed frame	
1640 Predefined-time backstepping sliding mode control for AUV depth		Kai Chen	Northwestern Polytechnical Univ.
Donghui Li	Beijing Institute of Technology	Sicheng Yang	Northwestern Polytechnical Univ.
Zhongjing Ma	Beijing Institute of Technology	Pengli Wu	Northwestern Polytechnical Univ.
Yu Liu	Beijing Institute of Technology	Jinlong Song	Naval Univ. of Engineering
Zhigang Gao	Beijing Institute of Technology	Xiangping Li	Naval Univ. of Engineering
Suli Zou	Beijing Institute of Technology	Yongchao Wang	Northwestern Polytechnical Univ.
10:15-12:15	B12.77	Chengzhi Zeng	Northwestern Polytechnical Univ.
		10:15-12:15	B12.83
		683 Application of particle swarm-pseudospectral hybrid optimization strategy in solving the footprints of high-speed vehicle	
		Zhengran Qu	Northwestern Polytechnical Univ.
		Qing Lu	Northwestern Polytechnical Univ.
		Ruimin Jiang	Northwestern Polytechnical Univ.

Bin Zhao	Northwestern Polytechnical Univ.	Zhiyu Liu	Beihang Univ.
10:15-12:15	B12.84	Wanchun Chen	Beihang Univ.
712 Fuzzy overload allocation method for blended control interceptor with improved PSO algorithm		10:15-12:15	B12.92
Jinlong Zhao	Northwestern Polytechnical Univ.	1271 Robust trajectory optimization based on covariance control under uncertainty	
Shaozheng Feng	Northwestern Polytechnical Univ.	Zhaoyu Yang	Beihang Univ.
Jun Zhou	Northwestern Polytechnical Univ.	Wanchun Chen	Beihang Univ.
10:15-12:15	B12.85	Xiang Li	Beihang Univ.
830 Meta-learning-based impact angle control guidance with accurate time-to-go estimation		Wengui Lei	Beihang Univ.
Chenxing Wang	Harbin Institute of Technology	10:15-12:15	B12.93
Yueyong Lv	Harbin Institute of Technology	1371 A hardware accelerator for rapid computation of line-of-sight angular rates in roll-pitch seekers	
Pengyu Wang	Harbin Institute of Technology	Zhenzhou Jia	Beijing Microelectronic Technology Institute
Yuxin Yang	Harbin Institute of Technology	Mengwen Fan	Beijing Microelectronic Technology Institute
10:15-12:15	B12.86	Jian Zhang	Beijing Microelectronic Technology Institute
897 Analytical reentry guidance method considering terminal flight capability limitation		10:15-12:15	B12.94
Yangyang Wan	Beijing Institute of Technology	1585 Time-coordinated reentry guidance for multiple no-fly zone avoidance based on a range-determined strategy	
Jie Guo	Beijing Institute of Technology	Mingran Zheng	Beijing Institute of Technology
Cheng Fu	Beijing Institute of Technology	Jie Guo	Beijing Institute of Technology
Zhongzhong Zheng	Beijing Institute of Technology	Fangyu Jia	Beijing Institute of Technology
Shengjing Tang	Beijing Institute of Technology	Shengjing Tang	Beijing Institute of Technology
10:15-12:15	B12.87	10:15-12:15	B12.95
34 Design of longitudinal stability augmentation control law for high-aspect-ratio over-the-wing engine UAV		1697 Intelligent 3D evasion against dual non-cooperative aerial vehicles: an energy-efficient optimal guidance approach	
Haogang Zhao	AVIC First Aircraft Design and Research Institute	Taiyuan Liang	China Academy of Launch Vehicle Technology
Jingjing He	AVIC First Aircraft Design and Research Institute	Yin Pei	China Academy of Launch Vehicle Technology
Huiwen Han	AVIC Chinese Flight Test Establishment	Ben Yang	China Academy of Launch Vehicle Technology
10:15-12:15	B12.88	Keqin Chen	China Academy of Launch Vehicle Technology
1052 A rapid full-course initial trajectory planning method for hypersonic reentry vehicles		10:15-12:15	B12.96
Peiyu Cao	Tsinghua Univ.	167 一种 RLV 速度控制及燃料消耗量预估方法	
Yanguang Fu	Tsinghua Univ.	Jiahao Gan	Beihang Univ.
Qing Li	Tsinghua Univ.	Yuanpeng Fang	AVIC Chengdu Aircraft Design and Research Institute
10:15-12:15	B12.89	Jin Zhang	AVIC Chengdu Aircraft Design and Research Institute
1054 An analytical intermediate-distance constrained guidance law with multi-state convergence		10:15-12:15	B12.97
Yuxiang Chang	Beijing Institute of Technology	338 一种基于图像的视觉伺服自主拦截无人机	
Qiuqiu Wen	Beijing Institute of Technology	Zhongxiang Bao	Beihang Univ.
Xin Li	Beijing Institute of Technology	Jianglong Yu	Beihang Univ.
Jiahui Zhang	Beijing Institute of Technology	Xiawang Dong	Beihang Univ.
Shaoyue He	Beijing Institute of Technology	10:15-12:15	B12.98
10:15-12:15	B12.90	370 Analysis of the influence mechanism of initial altitude error on navigation error	
1120 An anti-jamming STAP algorithm for GNSS receivers in attitude disturbance state		Penglei Zhao	Beijing Institute of Astronautical Systems Engineering
Haiyang Wang	Rocket Force Univ. of Engineering	Yimeng Gao	Beijing Institute of Astronautical Systems Engineering
Qian Chen	Rocket Force Univ. of Engineering	10:15-12:15	B12.99
Zhiyong Yu	Rocket Force Univ. of Engineering	511 Convergence-guaranteed homing trajectory planning for a	
Zhicheng Yao	Rocket Force Univ. of Engineering		
Bo Hou	Rocket Force Univ. of Engineering		
Linlin Li	Rocket Force Univ. of Engineering		
10:15-12:15	B12.91		
1219 A hierarchical guidance framework for impact time and angle control using model predictive static programming			

parafoil system using convex optimization

Jialin Sun	Beijing Institute of Space Mechanics and Electricity
Zheng Li	Beihang Univ.
Yueyang Liu	Beihang Univ.
Lin Liu	Beijing Institute of Space Mechanics and Electricity

10:15-12:15 B12.100

447 *基于多头自注意力机制与分层强化学习的空战机动决策方法*

Linbo Huang	Harbin Engineering Univ
Lei Zhang	AVIC Shenyang Aircraft Design and Research Institute
Jiawei Xia	Naval Aviation Univ
Qiang Yu	Harbin Engineering Univ
Ruizhe Ma	Harbin Engineering Univ

10:15-12:15 B12.101

648 *DDPG-based auto-tuning of PID parameters for hypersonic vehicle attitude control*

Zhentaio Bian	Beijing Institute of Technology
Qunli Xia	Beijing Institute of Technology
Yangxin Liu	Beijing Institute of Technology
Puyang Qi	Beijing Institute of Technology

10:15-12:15 B12.102

799 *GPS L1C 信号模拟器设计与闭环收发实验验证*

Yafeng Li	Beijing Information Science and Technology University
Zhen Shen	Beijing Information Science and Technology University
Yi Ji	Beijing Information Science and Technology University
Junfang Fan	Beijing Information Science and Technology University

10:15-12:15 B12.103

1177 *Intelligent control of hypersonic flight vehicles based on additive state decomposition*

Yu Wang	Xi'an Univ. of Posts & Telecommunications
Jinrui Ren	Xi'an Univ. of Posts & Telecommunications
Yuan Zheng	Xi'an Univ. of Posts & Telecommunications

10:15-12:15 B12.104

1538 *Pseudo-spectral differentiation for control rate constrained reentry trajectory optimization*

Yubo Qin	Aerospace Technology Institute of CARD C
Chao Ou	Aerospace Technology Institute of CARD C
Huajun Zhu	State Key Laboratory of Aerodynamics
Hailong Liang	Aerospace Technology Institute of CARD C
Zichen Tang	Aerospace Technology Institute of CARD C

10:15-12:15 B12.105

256 *惯性行人导航系统误差分析及在线标定方法*

Hanlin Zhang	AVIC Xi'an Flight Automatic Control Research Institute
Min Guo	AVIC Xi'an Flight Automatic Control Research Institute

Huaxiang Yi	AVIC Xi'an Flight Automatic Control Research Institute
Junling Zhang	AVIC Xi'an Flight Automatic Control Research Institute

10:15-12:15 B12.106

501 *Geometry-aware minimum-clearance estimation and delay-compensated predictive braking for final aircraft docking of airport special vehicles*

Jianshu Gao	Civil Aviation Univ. of China
Wenqing Xue	Civil Aviation Univ. of China

10:15-12:15 B12.107

906 *Attractive manifold-based navigation for automated guided vehicles*

Enhao Zeng	Beihang Univ.
Xinyu Xu	Beihang Univ.
Gennady Veselov	Southern Federal Univ.
Zeyu Wang	Beihang Univ.
Hanting Fang	Beihang Univ.
Lingling Wang	Beihang Univ.
Li Fu	Beihang Univ.

10:15-12:15 B12.108

92 *Time-varying formation coordinated and tracking control based on prescribed-time sliding mode disturbance observer*

Xin Du	Beihang Univ.
Yicong Lin	Beihang Univ.
Chaoyang Dong	Beihang Univ.
Zhenyuan Song	Beihang Univ.

10:15-12:15 B12.109

185 *Cooperative control for spacecraft swarms under byzantine attacks and input constraints*

Dexin Jiao	Sun Yat-sen Univ.
Yu Zhang	AVIC Chengdu Aircraft Design and Research Institute
Mingjun Liu	Sun Yat-sen Univ.
Haizhao Liang	Sun Yat-sen Univ.

10:15-12:15 B12.110

266 *Master-slave synchronous flight control for a three-module combined multi-body UAV in fixed-wing mode*

Zhicong Shao	Beihang Univ.
Xi Huang	Beihang Univ.
Zewen sun	Beihang Univ.
Pengyuan Qi	Beihang Univ.

10:15-12:15 B12.111

290 *Ratio-of-distance rigidity based formation control under actuator smoothness constraints*

Wei Luo	Rocket Force Univ. of Engineering
Tao Zhang	Tsinghua Univ.
Jiawei Zhao	Rocket Force Univ. of Engineering

10:15-12:15 B12.112

523 *A segregation control method for UAV swarms based on coupled differential equations*

Yanfei Zhou	Army Engineering Univ. of PLA
Peng Xu	Army Engineering Univ. of PLA
Jintao Liu	Army Engineering Univ. of PLA
Tingting Bai	Army Engineering Univ. of PLA
Zebo Li	Army Engineering Univ. of PLA
Jingwei Dong	Army Engineering Univ. of PLA

10:15-12:15	B12.113		
573 Numerical analysis of UAV electro-optical pod system under error of shafting			
Zi Zhao	Shaanxi Institute of Technology		
Linna Zhang	Shaanxi Institute of Technology		
10:15-12:15	B12.114		
575 Fuzzy comprehensive evaluation analysis for two axis servo turntable			
Linna Zhang	Shaanxi Institute of Technology		
Zi Zhao	Shaanxi Institute of Technology		
Daiwei Gan	Shaanxi Institute of Technology		
10:15-12:15	B12.115		
933 Distributed group tracking and reactive obstacle avoidance for UAV swarms in multi-target scenarios			
Shihan Chen	Beihang Univ.		
Jiang Zhao	Beihang Univ.		
Pei Chi	Beihang Univ.		
Yingxun Wang	Beihang Univ.		
10:15-12:15	B12.116		
1332 Cooperative collision avoidance guidance law for multiple missiles based on control barrier function			
Zhihan Liu	Nanjing Univ. of Aeronautics and Astronautics		
Xiaoming chen	Nanjing Univ. of Aeronautics and Astronautics		
Yuxuan Chu	Nanjing Univ. of Aeronautics and Astronautics		
Junxiao Li	Nanjing Univ. of Aeronautics and Astronautics		
10:15-12:15	B12.116		
1332 Cooperative collision avoidance guidance law for multiple missiles based on control barrier function			
Zhihan Liu	Nanjing Univ. of Aeronautics and Astronautics		
Xiaoming Chen	Nanjing Univ. of Aeronautics and Astronautics		
Yuxuan Chu	Nanjing Univ. of Aeronautics and Astronautics		
Junxiao Li	Nanjing Univ. of Aeronautics and Astronautics		
10:15-12:15	B12.117		
1336 Local consensus of discrete-time second-order multi-agent systems with input saturation and fixed communication delay			
Qi Fu	Jiangsu Univ. of Science and Technology		
Changjiang Li	Jiangsu Univ. of Science and Technology		
Zhaoping Du	Jiangsu Univ. of Science and technology		
Jianzhen Li	Jiangsu Univ. of Science and Technology		
10:15-12:15	B12.118		
1435 Indirect manifold based two-time-scales consensus			
Jialong Chen	Guangxi Univ.		
Linglan Kang	Guangxi Univ.		
Yang Wu	Guangxi Univ.		
10:15-12:15	B12.119		
1610 Robust control and tension allocation for multi-UAV slung-payload transport subject to composite disturbances and safety constraints			
Hualin Qiu	Southwest Univ. of Science and Technology		
Yuying GUO	Southwest Univ. of Science and Technology		
Youmin Zhang	Concordia Univ.		
Hao Liu	Lunan Institute of Technician		
10:15-12:15	B12.120		
1631 Collision avoidance for underactuated unmanned surface vehicles based on enhanced error constraints			
Yuchao Wang	Harbin Engineering Univ.		
Tuoxin Chen	Harbin Engineering Univ.		
Shiquan Zhao	Harbin Engineering Univ.		
Huixuan Fu	Harbin Engineering Univ.		
10:15-12:15	B12.121		
508 Air-Ground cooperative navigation for sensor-less UGVs based on UAV active perception			
Jiang Zhao	Beihang Univ.		
Minghao Pi	Beihang Univ.		
Pei Chi	Beihang Univ.		
Yingxun Wang	Beihang Univ.		
10:15-12:15	B12.122		
566 Vision-Based UAV control with spatio-temporal attention mechanism under occlusion constraints			
Mengchen Sun	Beihang Univ.		
Jiang Zhao	Beihang Univ.		
Pei Chi	Beihang Univ.		
Yingxun Wang	Beihang Univ.		
10:15-12:15	B12.123		
684 融合分层课程学习与混合策略池采样的多智能体空战博弈决策方法			
Yang Yang	Beihang Univ.		
Zhihao Lyu	Beihang Univ.		
Zheng Zhang	Beihang Univ.		
Haibing Chen	Beihang Univ.		
10:15-12:15	B12.124		
1107 Energy-Optimal waypoint-oriented trajectory planning for solar-powered UAV based on multi-objective reinforcement learning			
Tichao Xu	Institute of Engineering Thermophysics, CAS		
Jingrong Fang	Institute of Engineering Thermophysics, CAS		
Wenyue Meng	Institute of Engineering Thermophysics, CAS		
Jian Zhang	Institute of Engineering Thermophysics, CAS		
10:15-12:15	B12.125		
1304 Low-Dimensional evasion strategy for multiple flight vehicles based on MAH-MAPPO			
Bowei Yan	Harbin Institute of Technology		
Xiaojun Ban	Harbin Institute of Technology		
Runle Du	National Key Laboratory of Science and Technology on Test Physics and Numerical Mathematics		

10:15-12:15	B12.126	Ruixuan Wei	Air Force Engineering Univ.
1605 <i>A machine vision approach for gear end-face defect inspection and automatic sorting</i>		Qirui Zhang	Air Force Engineering Univ.
Yifeng Zhang	Jingchu Univ. of Technology	Chenkang Huang	Air Force Engineering Univ.
Weijie Jia	Jingchu Univ. of Technology	Zhiyuan Liu	People's Liberation Army of China
Jing Yang	Jingchu Univ. of Technology	10:15-12:15	B12.134
Li Zhang	Jingchu Univ. of Technology	1492 <i>Pollution area automatic boundary surveying flight planning of UAV group</i>	
10:15-12:15	B12.127	Zheng Yao	Beijing Aerospace Automatic Control Institute
432 <i>Cooperative search and tracking for UAV swarm via mode-conditioned MPPI</i>		Zhenta Xu	Beijing Aerospace Automatic Control Institute
Yichen Li	Zhejiang Univ.	Huixia Wang	Beijing Aerospace Automatic Control Institute
Wenjie Zhao	Zhejiang Univ.	Mingming Shi	Sichuan Univ.
10:15-12:15	B12.128	10:15-12:15	B12.135
578 <i>Integrated global-local path planning for UAVs using AAMH and gradient-aware DWA</i>		1528 <i>A hierarchical complete coverage path planning framework based on perception-aware BCD and GTSP</i>	
Yunshang Qu	Northwestern Polytechnical Univ.	Zhaoyang Wei	Beijing Univ. of Technology
Ruimin Jiang	Northwestern Polytechnical Univ.	Xiangyin Zhang	Beijing Univ. of Technology
Bin Zhao	Northwestern Polytechnical Univ.	10:15-12:15	B12.136
Qing Lu	Northwestern Polytechnical Univ.	1602 <i>Multi-Drone path planning in complex three-dimensional terrain based on improved dwarf mongoose optimization algorithm</i>	
10:15-12:15	B12.129	Jiayi Hu	Nanchang Hangkong Univ.
671 <i>Dynamic task allocation for heterogeneous UAV-UGV systems based on a particle swarm optimization</i>		Liu Chang	Nanchang Hangkong Univ.
Jingzhi Yue	Beijing Information Science and Technology Univ.	Hao Chen	Nanchang Hangkong Univ.
Chengyu Gu	Beijing Information Science and Technology Univ.	Leqi Jiang	Nanchang Hangkong Univ.
Xiaobin Xu	Beijing Information Science and Technology Univ.	Li Ting	Nanchang Hangkong Univ.
Sixing Zhang	Beijing Information Science and Technology Univ.	Xiaoyu Jiang	Nanchang Hangkong Univ.
Shiyao Lin	China Research and Development Academy of Machinery Equipment	Xingyi Zhou	Nanchang Hangkong Univ.
10:15-12:15	B12.130	10:15-12:15	B12.137
714 <i>Multi-UAV cooperative anti-submarine search and task allocation in static probability fields</i>		104 <i>基于 CMS-PSO 的多无人机协同路径规划研究</i>	
Jiang Zhao	Beihang Univ.	Chao Jiang	AVIC Xi'an Flight Automatic Control Research Institute
Mengyuan Gao	Beihang Univ.	Yuwei Cui	AVIC Xi'an Flight Automatic Control Research Institute
Mengqi Li	Beihang Univ.	Wenjin Liu	AVIC Xi'an Flight Automatic Control Research Institute
Pei Chi	Beihang Univ.	10:15-12:15	B12.138
Yingxun Wang	Beihang Univ.	472 <i>A dynamic swarming strategy for cooperative pursuit in heterogeneous obstacle environments</i>	
10:15-12:15	B12.131	Hang Liu	Beihang Univ.
731 <i>Task allocation for heterogeneous UAV swarms based on improved ant colony optimization</i>		Yimin Deng	Beihang Univ.
Shuo Zhang	Univ. of Jinan	Zhihua Cui	Key Laboratory of Big Data Analysis and Parallel Computing of Shanxi Province
Meng Li	Univ. of Jinan	Haibin Duan	Beihang Univ.
Qicheng Liu	Univ. of Jinan	10:15-12:15	B12.139
10:15-12:15	B12.132	476 <i>Finite-time flocking control for UAV swarms with a starling-inspired cucker-smale model</i>	
1065 <i>Multi-UAV underwater target search method based on NSGA-II</i>		Yuming Meng	Beihang Univ.
Pei Chi	Beihang Univ.	Yang Yuan	Beihang Univ.
Mengqi Li	Beihang Univ.	Haibin Duan	Beihang Univ.
Jiang Zhao	Beihang Univ.	10:15-12:15	B12.140
Yingxun Wang	Beihang Univ.	959 <i>基于强化学习优化灰狼算法的卫星编队围捕任务</i>	
10:15-12:15	B12.133	Ziyu Liu	Nanjing Univ. of Aeronautics and Astronautics
1124 <i>Collaborative perception-based hierarchical distributed model predictive control for multi-UAV target tracking</i>			
Benqi Jiang	Air Force Engineering Univ.		

Yajie Ma	Nanjing Univ. of Aeronautics and Astronautics	10:15-12:15	B12.148
Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics		
10:15-12:15	B12.141		
1014 Multi-UAV trajectory planning for visibility-aware tracking in complex environments			
Aiyang Yi	Beihang Univ.		
Pei Chi	Beihang Univ.		
Jiang Zhao	Beihang Univ.		
Yingxun Wang	Beihang Univ.		
10:15-12:15	B12.142		
1039 Simscape-Based dynamics model and control of a three-dof telescopic boom for aerial recovery			
Minbo Zhang	Xi'an Jiaotong Univ.		
Chao Zhang	Xi'an Jiaotong Univ.		
Jigen Sun	Xi'an Jiaotong Univ.		
Caiyao Yu	Xi'an Jiaotong Univ.		
10:15-12:15	B12.143		
1522 Leaderless and leader-follower practical finite-time consensus in discrete-time multi-agent systems			
Jing Tao	Xinjiang Univ.		
Zhiyong Yu	Xinjiang Univ.		
Haijun Jiang	Xinjiang Univ.		
10:15-12:15	B12.144		
843 Research on fixed-wing UAV formation control technology based on consensus theory and artificial potential field method			
Zongheng Liao	AVIC Shenyang Aircraft Design and Research Institute		
Kai Huang	AVIC Shenyang Aircraft Design and Research Institute		
10:15-12:15	B12.145		
901 A DGCNN-based method for UAV swarm spatial formation recognition			
Weiye Zhang	Univ. of Electronic Science and Technology of China		
Xiaoping Chen	Univ. of Electronic Science and Technology of China		
Wanting Li	AVIC Chengdu Aircraft Design and Research Institute		
Kangsong Wang	Univ. of Electronic Science and Technology of China		
Hui Liu	AVIC Chengdu Aircraft Design and Research Institute		
Xiaobo Ma	AVIC Xi'an Aeronautics Computing Technology Research Institute		
10:15-12:15	B12.146		
177 Collision-Free trajectory tracking for quadrotor UAVs via control barrier function and Kalman filtering			
Haoqiang Liu	Southeast Univ.		
Ruijia Zhang	Southeast Univ.		
Lu Kelin	Southeast Univ.		
10:15-12:15	B12.147		
178 Probabilistic guidance for unmanned aerial vehicle collision avoidance in the presence of intruder decision uncertainty			
Yuqi Feng	Southeast Univ.		
Kelin Lu	Southeast Univ.		
10:15-12:15	B12.148		
285 Robust quadrotor control under extreme wind disturbances via continuous-time liquid neural networks			
Qiqi Li	Guilin Univ. of Electronic Technology		
Furong Jiang	Guilin Univ. of Electronic Technology		
Xiyan Sun	Guilin Univ. of Electronic Technology		
10:15-12:15	B12.149		
313 Hierarchical reinforcement learning for fixed-wing UAV combat decision and fault-tolerant control in games			
Xindi Wang	Xi'an Modern Control Technology Research Institute		
Zhenyu Ma	Xi'an Modern Control Technology Research Institute		
CunYi Hu	Xi'an Modern Control Technology Research Institute		
Haochun Miao	Xi'an Modern Control Technology Research Institute		
Jinping Li	Xi'an Modern Control Technology Research Institute		
10:15-12:15	B12.150		
322 Study and experimental validation of guidance and decision-making technologies for the takeoff and landing of uavs on USVs			
Jikang Zhong	State Key Laboratory of Robotics and Intelligent Systems		
Chaoxiong Huang	State Key Laboratory of Robotics and Intelligent Systems		
Yanchun Chang	State Key Laboratory of Robotics and Intelligent Systems		
Liyang Yang	State Key Laboratory of Robotics and Intelligent Systems		
Peng Li	State Key Laboratory of Robotics and Intelligent Systems		
Yuqing He	State Key Laboratory of Robotics and Intelligent Systems		
10:15-12:15	B12.151		
382 An integrated flight/propulsion control strategy for aircraft with distributed electric propulsion			
Biao Wang	Nanjing Univ. of Aeronautics and Astronautics		
Ziyang Zheng	Nanjing Univ. of Aeronautics and Astronautics		
Chaoying Tang	Nanjing Univ. of Aeronautics and Astronautics		
10:15-12:15	B12.152		
592 Trajectory prediction for maneuvering targets via multidimensional feature fusion			
Yulin Tang	Beihang Univ.		
Kun Wu	Beihang Univ.		
Gengchao Liu	Beihang Univ.		
Jiayin Zhai	Beihang Univ.		
Wei Lan	Beihang Univ.		
10:15-12:15	B12.153		
749 控制约束驱动的深度强化学习俯仰姿态控制律设计及鲁棒性验证			
Haoyu Jiang	Beihang Univ.		
Zheng Zhang	Beihang Univ.		
Haibing Chen	Beihang Univ.		

10:15-12:15	B12.154				Space Flight Dynamics
870 <i>Service-Oriented layered software architecture for UAV vehicle management systems</i>					
Xiangqian Xu	AVIC, Xi'an Flight Automatic Control Research Institute		Tianyi Yu	Science and Technology Laboratory on	Space Flight Dynamics
Ran Peng	AVIC Xi'an Flight Automatic Control Research Institute		Jun Sun	Science and Technology Laboratory on	Space Flight Dynamics
Yingxi Liang	AVIC Xi'an Flight Automatic Control Research Institute				
10:15-12:15	B12.155		10:15-12:15	B12.161	
988 <i>ESO-Based terminal sliding mode control for unmanned seaplane takeoff under severe sea states</i>					
Yubo Wang	Beihang Univ.		Yichuan Song	AVIC Xi'an Flight Automatic Control Research Institute	
Lixin Wang	Beihang Univ.		Cheng Zhou	AVIC Xi'an Flight Automatic Control Research Institute	
Zhuang Li	China Special Vehicle Research Institute		Wenqian Zhang	AVIC Xi'an Flight Automatic Control Research Institute	
Zhe Zhang	Chinese Flight Test Establishment		Jinzhao Zhang	AVIC Xi'an Flight Automatic Control Research Institute	
Hailiang Liu	Beihang Univ.				
10:15-12:15	B12.156		10:15-12:15	B12.162	
1003 <i>多动态障碍下的无人机鲁棒避障固定时间轨迹跟踪控制</i>					
Yajun Li	Xi'an Institute of Modern Control Technology		ShengYang Liu	Shanghai Aerospace Control Technology Institute	
Shuai Liang	Xi'an Univ. of Technology		Ting Song	Shanghai Aerospace Control Technology Institute	
Changzhu Wei	Harbin Institute of Technology		Fei Han	Shanghai Aerospace Control Technology Institute	
Naigang Cui	Harbin Institute of Technology				
10:15-12:15	B12.157		10:15-12:15	B12.163	
1280 <i>An improved PPO-based UAV dynamic obstacle avoidance method under wind disturbance</i>					
Jian Zhang	Xiamen Univ.		Shihao Zhao	Northwestern Polytechnical Univ.	
Jingrui Zhang	Xiamen Univ.		Yaohong Qu	Northwestern Polytechnical Univ.	
Kang Zhang	Changji Univ.				
Huiming Chen	Changji Univ.				
10:15-12:15	B12.158		10:15-12:15	B12.164	
1596 <i>An emergency rescue UAV path planning method integrating dual experience replay buffer and adaptive exploration</i>					
Jiarui Bai	Changji Univ.		Hua Guo	China Shenhua Energy Shipping Company Limited	
Jian Zhang	Changji Univ.		Weihaan Li	Harbin Engineering Univ.	
Huiming Chen	Changji Univ.		Zekai Fu	China Shenhua Energy Shipping Company Limited	
Haoran He	Changji Univ.		Dongsheng Li	China Waterborne Transport Research Institute	
10:15-12:15	B12.159		Shanjia Zhang	Harbin Engineering Univ.	
1668 <i>Autonomous trajectory tracking control of UAVs based on disturbance-observer-compensated fixed-time terminal sliding mode</i>					
Xiang Liu	Shandong Univ. of Aeronautics		Zhi Zhang	Harbin Engineering Univ.	
Hui Li	Shandong Univ. of Aeronautics				
10:15-12:15	B12.160		10:15-12:15	B12.165	
379 <i>Terrain-Based illumination and shadow simulation method for lunar exploration planning</i>					
Cheng Yang	Science and Technology Laboratory on Space Flight Dynamics		Shaochong Wang	Beijing Information Science and Technology Univ.	
Yuhui Gao	Science and Technology Laboratory on Space Flight Dynamics		Xiaobin Xu	Beijing Information Science and Technology Univ.	
Yizhe Huang	Science and Technology Laboratory on Space Flight Dynamics		Yi Ji	Beijing Information Science and Technology Univ.	
Chuankai Liu	Science and Technology Laboratory on Space Flight Dynamics				
Changming Zhu	Science and Technology Laboratory on		10:15-12:15	B12.166	
809 <i>Reinforcement learning method for airship path planning under wind field disturbances integrating artificial potential field and reference trajectory priors</i>					
			Hao Jin	Beihang Univ.	
			Xiao Guo	Beihang Univ.	

10:15-12:15	B12.167		Telecommunications
851 <i>End-to-End mapless UAV target tracking via transformer-based reinforcement learning</i>		Yuxin Li	China Railway Hohhot Group Co., Ltd.
Jiarui Hua	Beihang Univ.	13:38-13:46	C1.2
Xiao Guo	Beihang Univ.	1210 <i>Anti-saturation integrated guidance and control for hypersonic vehicles via dual-period variable gain and artificial potential field</i>	
Zilong Zhang	Beihang Univ.	Yinchao Wang	Beijing Institute of Technology
10:15-12:15	B12.168	Liangyu Zhao	Beijing Institute of Technology
862 <i>Dynamic object manipulation method for reinforcement learning based on visual observation</i>		Haoming Shi	Beijing Institute of Technology
Fengbo Lan	Tsinghua Univ.	13:46-13:54	C1.3
Jieqian Sun	Tsinghua Univ.	740 基于 NSGA-3 的高超声速飞行器 MPC 参数多目标优化方法	
Ziye Zhang	Tsinghua Univ.	Xutong Wang	Nanjing Univ. of Aeronautics and Astronautics
Hengxuan Xu	Tsinghua Univ.	Meng Yu	Nanjing Univ. of Aeronautics and Astronautics
Tao Xue	Tsinghua Univ.	13:54-14:02	C1.4
Tao Zhang	Tsinghua Univ.	1176 <i>Dual-model switching model predictive control for a dual-motor tendon-driven dexterous hand</i>	
10:15-12:15	B12.169	Shun He	Nanjing Univ. of Aeronautics and Astronautics
926 <i>Coverage path planning for UAV based on an improved particle swarm optimization algorithm</i>		Meng Yu	Nanjing Univ. of Aeronautics and Astronautics
Yi Zhang	Naval Aviation Univ.	14:02-14:10	C1.5
Wanbin Wang	Harbin Engineering Univ.	845 基于自适应 INDI 的高超声速飞行器返回段容错控制	
Xiuxia Yang	Naval Aviation Univ.	Xinping Zhu	Nanjing Univ. of Aeronautics and Astronautics
10:15-12:15	B12.170	Yanli Du	Nanjing Univ. of Aeronautics and Astronautics
984 <i>Mission/Trajectory reconstruction method after launch vehicle propulsion failure</i>		Yanbin Liu	Nanjing Univ. of Aeronautics and Astronautics
Shiyao Li	Beijing Institute of Space Long March Vehicle	Zigang Jin	Nanjing Univ. of Aeronautics and Astronautics
Yipeng Liu	Beijing Institute of Space Long March Vehicle	14:10-14:18	C1.6
Zhengxiang Sun	Beijing Institute of Space Long March Vehicle	1726 <i>Comparative analysis of virtual control variables in lateral-directional backstepping control for UAVs</i>	
10:15-12:15	B12.171	Zhuolin Cheng	Nanjing Univ. of Aeronautics and Astronautics
1020 <i>Trajectory planning and multiple interception strategy for counter-unmanned missions</i>		Boyi Chen	Nanjing Univ. of Aeronautics and Astronautics
Yanjie Min	Beihang Univ.	Yanbin Liu	Nanjing Univ. of Aeronautics and Astronautics
Dawei Li	Beihang Univ.	Jinbao Chen	Nanjing Univ. of Aeronautics and Astronautics
10:15-12:15	B12.172	14:18-14:26	C1.7
1028 <i>SGDF-Planner: soft-constrained geometric trajectory optimization for differentially flat quadrotors</i>		441 基于混沌多项式的变构型飞行器爬升轨迹鲁棒优化	
Yuhan Liu	Beihang Univ.	Wangxin Zheng	Nanjing Univ. of Aeronautics and Astronautics
Jiang Zhao	Beihang Univ.	Zepeng Gao	Nanjing Univ. of Aeronautics and Astronautics
Yingxun Wang	Beihang Univ.	Yanbin Liu	Nanjing Univ. of Aeronautics and Astronautics
Pei Chi	Beihang Univ.	Haidong Shen	Nanjing Univ. of Aeronautics and Astronautics
C1	1st Floor VIP Room	Boyi Chen	Nanjing Univ. of Aeronautics and Astronautics
Modeling GNC	1 层 贵宾厅	Jinbao Chen	Nanjing Univ. of Aeronautics and Astronautics
Chairs: Gang Wang			
13:30-13:38	C1.1		
698 <i>Event-triggered anti-swing control of rotary cranes via actor-critic reinforcement learning</i>			
Qi Zhang	Beijing Univ. of Posts and Telecommunications		
Gang Wang	Beijing Univ. of Posts and Telecommunications		
Song Han	China Academy of Safety Science and Technology		
Wenjun Li	Beijing Univ. of Posts and Telecommunications		
Ziwei Wang	Beijing Univ. of Posts and Telecommunications		

Astronautics	
14:26-14:34	C1.8
1239 <i>Fault-tolerant control of networked flight control system based on communication availability</i>	
Fangyuan Chen	Beihang Univ.
Jian Shi	Beihang Univ.
Rui Mu	Beihang Univ.
Shaoping Wang	Beihang Univ.
14:34-14:42	C1.9
1347 <i>Bird-strike avoidance during final approach via gaussian-process prediction and model predictive control</i>	
Pengcheng Ren	Beihang Univ.
Rentong Chen	Beihang Univ.
Xingjian Wang	Beihang Univ.
Chao Zhang	Beihang Univ.
Yuwei Zhang	Beihang Univ.
Rui Mu	Beihang Univ.
Shaoping Wang	Beihang Univ.
14:42-14:50	C1.10
664 航空永磁同步电机位置智能监控与容错控制	
Wei Zhang	Beijing Keeven Aviation Instrument Co., Ltd
Yifan Gong	Beijing Keeven Aviation Instrument Co., Ltd
Shan Li	Beijing Keeven Aviation Instrument Co., Ltd
14:50-14:58	C1.11
824 基于 GAF 多通道灰度图与 CNN 的永磁同步电机故障检测方法	
Tianbo Liang	Beijing Keeven Aviation Instrument Co., Ltd
Lulu Liang	Beijing Keeven Aviation Instrument Co., Ltd
Ming Sun	Beijing Keeven Aviation Instrument Co., Ltd
14:58-15:06	C1.12
1603 <i>Design and evaluation of a triple-redundant flight control system for UAVs</i>	
Dong Wang	AVIC Xi'an Aeronautics Computing Technique Research Institute
Jianing Li	Nanjing Univ. of Aeronautics and Astronautics
Hongyan Qian	Nanjing Univ. of Aeronautics and Astronautics
15:06-15:14	C1.13
1104 <i>Zero-sum differential game-based data-driven sliding mode FTC for nonlinear discrete-time systems</i>	
Minxuan Li	Hefei Univ. of Technology
Wenjing Ren	Hefei Univ. of Technology
Junhao Zhu	Hefei Univ. of Technology
15:14-15:22	C1.14
840 <i>Fault localization in flush air data sensing systems using a hybrid data-driven and physics-based approach</i>	
Jie Wang	Chengdu Univ. of Information and Technology
Dibo Xiao	Chengdu Univ. of Information and Technology

C2	2nd Floor Yangshuo Room
Reasoning GNC	2 层 阳朔厅
Chairs: Rui Mu	
13:30-13:38	C2.1
329 一种基于掩码自监督时序 <i>Transformer</i> 的飞控系统模型生成余度方法	
Yu Zhou	AVIC Chengdu Aircraft Design and Research Institute
Jiniang Bian	AVIC Chengdu Aircraft Design and Research Institute
Jun Zhang	AVIC Chengdu Aircraft Design and Research Institute
Jie Zhong	Sichuan Univ.
13:38-13:46	C2.2
1108 <i>TACL: A generalized approach for multi-robot task allocation using collaborative LLMs</i>	
Yandong Wang	Beihang Univ.
Xuxin Lv	Beihang Univ.
Junle Wang	Beihang Univ.
Xiaolin Ai	Institute of Automation, CAS
Wenjun Wu	Beihang Univ.
13:46-13:54	C2.3
1297 <i>SWORD: Alleviating overthinking in LLMs via semantic window for redundancy detection</i>	
Jingjing Huang	Institute of Automation, CAS
Jinyuan Feng	Institute of Automation, CAS
Xiaolin Ai	Institute of Automation, CAS
Zhiqiang Pu	Institute of Automation, CAS
13:54-14:02	C2.4
1306 <i>LLM-driven conversational agents for adaptive learning path recommendations</i>	
Zeping Liu	Beihang Univ.
Jian Ren	Beihang Univ.
Wenjun Wu	Beihang Univ.
14:02-14:10	C2.5
1326 <i>LLM-enhanced strategy-guided decision making for multi-agent reasoning</i>	
Xiao Wang	Beihang Univ.
Jian Ren	Beihang Univ.
Wenjun Wu	Beihang Univ.
14:10-14:18	C2.6
715 <i>Large model agent for intelligent control of unmanned systems: challenges, solutions and experimental validation</i>	
Haoyu Guo	China Research and Development Academy of Machinery Equipment
Xiaozhang Liu	China Research and Development Academy of Machinery Equipment
Chen Ke	China Research and Development Academy of Machinery Equipment
Zilong Bai	China Research and Development Academy of Machinery Equipment
Shihao Pan	China Research and Development Academy of Machinery Equipment
Yafei Yuan	China Research and Development Academy of Machinery Equipment
14:18-14:26	C2.7
1208 <i>Spatio-temporal transformer cross-modal fusion for robust</i>	

dexterous grasping under occlusion

Yali Fan	Beihang Univ.
Jian Shi	Beihang Univ.
Shaoping Wang	Beihang Univ.
Rui Mu	Beihang Univ.
Maoqing Li	Beihang Univ.
Huakun Niu	Beihang Univ.

14:26-14:34 C2.8
1353 *Safety alignment of vision-language-action models based on formal constraints*

Yichao Lian	Beihang Univ.
Rui Mu	Beihang Univ.
Jian Shi	Beihang Univ.
Shaoping Wang	Beihang Univ.
Yali Fan	Beihang Univ.

14:34-14:42 C2.9
1019 *HSF-YOLO: An efficient and lightweight object detection network for complex traffic scenes*

Yuxuan Zhou	Beihang Univ.
Jiaxin Yang	Beihang Univ.
Wenling Li	Beihang Univ.
Jia Song	Beihang Univ.

14:42-14:50 C2.10
719 基于异构神经网络的模型可信度模糊评估方案

Kefan Li	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

14:50-14:58 C2.11
1150 基于深度强化学习的固定翼飞行器相对位置精确控制方法研究

Kun Liang	AVIC Chengdu Aircraft Design and Research Institute
Peng Zhai	Fudan Univ.
Jing Ni	AVIC Chengdu Aircraft Design and Research Institute
Bo Ma	AVIC Chengdu Aircraft Design and Research Institute
Hongyuan Zhu	AVIC Chengdu Aircraft Design and Research Institute
Yiwen Hu	AVIC Chengdu Aircraft Design and Research Institute
Hao Wei	AVIC Chengdu Aircraft Design and Research Institute

14:58-15:06 C2.12
1266 *FedTrust-dyn: Dynamic trust-aware federated learning for robust multivariate time-series anomaly detection under malicious attacks*

Zhiyuan Gao	Beihang Univ.
Rui Yang	Beihang Univ.
Ziniu Yu	Beihang Univ.
Zhenyu Yan	China Nuclear Power Engineering Co., Ltd

Kangning Zhang	Beihang Univ.
Ruijun Liu	Beihang Univ.

15:06-15:14 C2.13
533 *Cross-modal feature recalibration for unmanned system perception and decision-making in complex environments*

Wenxin Xia	Nanjing Univ. of Aeronautics and Astronautics
Yin Wang	Nanjing Univ. of Aeronautics and Astronautics

15:14-15:22 C2.14
1398 *Multi-strategy enhanced framework with intelligent decision for infrared photovoltaic defect inspection*

Zhuolin Li	Beijing Univ. of Technology
Yu Liang	Beijing Univ. of Technology
Heng Sun	Beijing Univ. of Technology

15:22-15:30 C2.15
1015 *Kinematic-constrained deep residual shrinkage network for robust velocity estimation via IMU/odometer fusion*

Keqiang Wu	Beijing Institute of Technology
Pengxiang Fu	Beijing Institute of Technology
Teng Ma	The Second Academy of CASIC
Yongqiang Han	Beijing Institute of Technology

C3 **2nd Floor Lipu Room**
Fault-tolerant GNC **2 层 荔浦厅**

Chairs: Wei Dong

13:30-13:38 C3.1
1684 *Design of pitch speed protection trigger mechanism for civil aircraft automatic flight based on multi-source information fusion and hysteresis logic*

Jiawei Chen	COMAC Shanghai Aircraft Design and Research Institute
-------------	---

13:38-13:46 C3.2
1479 *A unified impact angle control guidance law for all-aspect interception across wide evader speeds*

Chi Peng	Xi'an Research Institute of Surveying and Mapping
Zongpeng Pan	Xi'an Research Institute of Surveying and Mapping

13:46-13:54 C3.3
723 *A method of developing endurance load spectrum for civil aircraft actuation systems*

Hanhan Zeng	COMAC Shanghai Aircraft Design and Research Institute
Jian Huang	COMAC Shanghai Aircraft Design and Research Institute
Dongguang Xu	COMAC Shanghai Aircraft Design and Research Institute
Xiaoyi Gao	COMAC Shanghai Aircraft Design and Research Institute
Hairui Jiang	COMAC Shanghai Aircraft Design and Research Institute

13:54-14:02 C3.4
1351 *Imitation-guided reinforcement learning strategy for orbital pursuit decision*

Wei Dong	Beijing Institute of Technology
Jiajie Wang	Beijing Institute of Technology
Yeyun Cai	Beijing Institute of Technology

Chunyan Wang	Beijing Institute of Technology	Xiangyu Huang	Beijing Control Engineering Research Institute
Chen Chen	Beijing Institute of Technology	Haixia Hu	Beijing Control Engineering Research Institute
Fang Deng	Beijing Institute of Technology		
14:02-14:10	C3.5	15:06-15:14	C3.13
1278 <i>Design of altitude deviation and altitude capture alerts for civil aircraft automatic flight control system</i>		1237 基于多智能体强化学习的卫星追逃防御博弈	
Senbin You	COMAC Shanghai Aircraft Design and Research Institute	Wenxuan Wang	Nanjing Univ. of Aeronautics and Astronautics
Chao Zhou	COMAC Shanghai Aircraft Design and Research Institute	Yajie Ma	Nanjing Univ. of Aeronautics and Astronautics
Chang Liu	COMAC Shanghai Aircraft Design and Research Institute	Chuchu Han	Nanjing Univ. of Aeronautics and Astronautics
14:10-14:18	C3.6	15:14-15:22	C3.14
1502 面向高超声速飞行器电静液作动器的在线热健康估计与分层协同容错控制		380 <i>Distributed asynchronous CI fusion filter for satellite clusters</i>	
Zhaoxiong Wang	Beihang Univ.	Jingliang Gui	Nanjing Univ. of Aeronautics and Astronautics
Yunhua Li	Beihang Univ.	Shuli Liang	National Key Laboratory of Space Security
14:18-14:26	C3.7	Wang Lu	National Key Laboratory of Space Security
1586 <i>Dynamic stiffness analysis of civil aircraft flight control hydraulic servo actuation system</i>		Bing Hua	Nanjing Univ. of Aeronautics and Astronautics
Jian Huang	Shanghai Aircraft Design and Research Institute		
14:26-14:34	C3.8	C4 2nd Floor Nanning Room1	
1647 <i>Distributed self-learning coordination control for multi-spacecraft with actuator degradation</i>		Collaborative GNC 2 层 南宁厅 1	
Baopeng Zhu	Southeast Univ.	Chairs: Yang Liu	
Yi Deng	Beihang Univ.	13:30-13:38	C4.1
Lixuan He	Beihang Univ.	863 多飞行器俯冲段滑模协同制导控制一体化	
Yukai Zhu	Beihang Univ.	Zigang Jin	Nanjing Univ. of Aeronautics and Astronautics
14:34-14:42	C3.9	Yanli Du	Nanjing Univ. of Aeronautics and Astronautics
1649 <i>Axial resonance suppression of active magnetic bearings-rotor system by phase compensation under flexible-foundation support</i>		Yanbin Liu	Nanjing Univ. of Aeronautics and Astronautics
Yuxin Zeng	Beihang Univ.	Xinping Zhu	Nanjing Univ. of Aeronautics and Astronautics
Ximing Liu	Beihang Univ.	13:38-13:46	C4.2
Yang Yan	Beihang Univ.	276 <i>Adaptive collaborative decision-making method for multi-UAV herding control</i>	
Yifan Yin	Beihang Univ.	Jiang Zhao	Beihang Univ.
Shiqiang Zheng	Beihang Univ.	XinHang Ma	Beihang Univ.
14:42-14:50	C3.10	Zhi Yang	Beihang Univ.
881 <i>Optimization of fuel station placement for on-orbit refueling of SSO satellite clusters</i>		Pei Chi	Beihang Univ.
Tianle Yin	Jiangnan Univ.	Yingxun Wang	Beihang Univ.
Xiaoyu Zhu	Shanghai Jiao Tong Univ.	13:46-13:54	C4.3
Zhijian He	Shenzhen Technology Univ.	1134 <i>Cooperative decision-making in 5v5 satellite confrontation using multi-agent soft actor-critic</i>	
Jihe Wang	Sun Yat-Sen Univ.	Jiaye Chen	Tianjin Univ.
Kaixiang Yang	South China Univ. of Technology	Xiuyun Zhang	Tianjin Univ.
Chengxi Zhang	Jiangnan Univ.	Da Liu	Tianjin Univ.
14:50-14:58	C3.11	Hanyu Liang	Beijing Institute of Control Engineering
861 <i>Performance control methodology for trajectory tracking in small celestial body landing</i>		Wenjing Liu	Beijing Institute of Control Engineering
Zhihui Sui	China Academy of Space Technology	Qun Zong	Tianjin Univ.
Changhao Sun	China Academy of Space Technology	13:54-14:02	C4.4
Yi Xiu	China Academy of Space Technology	936 <i>Adaptive hierarchical multi-agent reinforcement learning for cooperative control</i>	
14:58-15:06	C3.12	Yongkai Tian	Beihang Univ.
1651 火星大气辅助变轨安全策略自主规划与控制		Zhiyu Li	Beihang Univ.
Minwen Guo	Beijing Control Engineering Research Institute		

Shuguang Zhang	Beihang Univ.	Quan Li	Jiangsu Second Normal Univ.
Yang Liu	Beihang Univ.	Zitong Shen	Jiangsu Second Normal Univ.
Jie Luo	Beihang Univ.	Wei Pan	Jiangsu Second Normal Univ.
14:02-14:10	C4.5	Yiyang Ni	Jiangsu Second Normal Univ.
1369 Dual-stream encoding with cross-domain alignment for off-dynamics policy transfer			
Tenghai Qiu	Central South Univ.	Linlin Xu	Jiangsu Second Normal Univ.
Yuan Wang	Institute of Automation, CAS	Haiying Wan	Jiangnan Univ.
Zhiqiang Pu	Institute of Automation, CAS	Chengxi Zhang	Jiangnan Univ.
Jinyuan Feng	Institute of Automation, CAS	Jimei Li	Yantai Univ.
Chenyi Li	Beijing Univ. of Technology	15:06-15:14	C4.13
Xiaolin Ai	Institute of Automation, Chinese Academy of Sciences	1412 A bi-level planning method for collaborative task allocation of urban logistics UAVs	
Yuqian Zhao	Central South Univ.	Wei Chen	Air Force Engineering Univ.
14:10-14:18	C4.6	Fuping Yu	Air Force Engineering Univ.
802 Temporal hypergraph coalition game for distributed multi-UAV swarm coordination			
Changping Yu	Beihang Univ.	Xingyi Pan	Air Force Engineering Univ.
Yang Liu	Beihang Univ.	15:14-15:22	C4.14
14:18-14:26	C4.7	1085 Distributed trajectory planning for quadrotor swarm in narrow and tilted pipes	
143 Trajectory optimization for heterogeneous gliding vehicle swarms with tight spatiotemporal cooperation constraints			
Rui Li	Xiamen Univ.	Yiming Zhang	Beijing Institute of Technology
Yue Feng	Univ. of Electronic Science and Technology of China	Kewei Xia	Beijing Institute of Technology
Zonghua Sun	Xiamen Univ.	15:22-15:30	C4.15
14:26-14:34	C4.8	1145 Research on dual-aircraft cooperative rendezvous based on reinforcement learning and interfered fluid field	
226 Task scheduling for capability-variant UAV swarms via capability-aware clustering and improved particle swarm optimization			
Qicheng Liu	Univ. of Jinan	Ruotong Xu	Beihang Univ.
Meng Li	Univ. of Jinan	Honglun Wang	Beihang Univ.
Shuo Zhang	Univ. of Jinan	Junfan Zhu	Beihang Univ.
14:34-14:42	C4.9	C5	2nd Floor Nanning Room2
1201 An improved nonlinear model predictive control method for UAV trajectory optimization			
Jiaqi chen	Sichuan Univ.	Prediction GNC	2层 南宁厅 2
Junjian Zhan	Sichuan Univ.	Chairs: Yin Wang	
Kairui Zhang	Sichuan Univ.	13:30-13:38	C5.1
Baoxinyu Wang	Sichuan Univ.	700 位姿非一致窗口穿越下四旋翼无人机轨迹生成与跟踪控制	
Guangtai Tian	Sichuan Univ.	Yonglan Lai	Nanjing Univ. of Aeronautics and Astronautics
Bin Li	Sichuan Univ.	Yin Wang	Nanjing Univ. of Aeronautics and Astronautics
14:42-14:50	C4.10	13:38-13:46	C5.2
1750 Exploration on the intelligent transformation path of mechatronic technology course driven by digital-intelligent technology			
Yong Zhang	Guilin Univ. of Aerospace Technology	701 基于 PPO-CBF 的四旋翼无人机避障导航方法	
Ping Sun	Guilin Normal Univ.	Shiji Wang	Nanjing Univ. of Aeronautics and Astronautics
14:50-14:58	C4.11	Yin Wang	Nanjing Univ. of Aeronautics and Astronautics
560 基于改进鲸鱼优化算法的多无人机协同目标搜索			
Wenyao Ma	Nanjing Univ. of Aeronautics and Astronautics	13:46-13:54	C5.3
Ju Jiang	Nanjing Univ. of Aeronautics and Astronautics	704 基于动态障碍代价的无人机编队轨迹优化方法	
14:58-15:06	C4.12	Yang Li	Nanjing Univ. of Aeronautics and Astronautics
1721 Hierarchical planning method for UAV swarms based on deep reinforcement learning and quantum-assisted optimization			
framework			

Tian Yin	Research Institute AVIC Chengdu Aircraft Design and Research Institute	Zhenyi Xu	Univ. of Science and Technology of China
Tianxu Li	AVIC Chengdu Aircraft Design and Research Institute	15:06-15:14	C5.13
Xiaohong Wang	AVIC Chengdu Aircraft Design and Research Institute	597 <i>Current-window ensemble with historical model reuse for drift-robust semiconductor virtual metrology</i>	
Rui Zhang	Northwestern Polytechnical Univ.	Jianghao Yang	Univ. of Science and Technology of China
Bin Xu	Northwestern Polytechnical Univ.	Kehao Shi	Univ. of Science and Technology of China
14:10-14:18	C5.6	Yunbo Zhao	Univ. of Science and Technology of China
1729 <i>DDPG-PID based autonomous control technology for UAV visual takeoff and landing</i>		Yu Kang	Univ. of Science and Technology of China
Zhongkai Zheng	Air Force Engineering Univ.	Zhenyi Xu	Univ. of Science and Technology of China
Hailin Li	Air Force Engineering Univ.	15:14-15:22	C5.14
Jing Ni	AVIC Chengdu Aircraft Design and Research Institute	622 <i>Unet-ViT: A transformer-enhanced U-Net for PCB component segmentation</i>	
Hang Yuan	Air Force Engineering Univ.	Yingjie Li	Anhui Univ.
14:18-14:26	C5.7	Kehao Shi	Hefei Comprehensive National Science Center
333 <i>Anthropomorphic implicit mapping for heterogeneous robotic teleoperation via PPO</i>		Yu Kang	Hefei Comprehensive National Science Center
Jiarui Tong	Harbin Institute of Technology	Zhenyi Xu	Auhui Univ. of Technology
Tong Wu	Harbin Institute of Technology	15:22-15:30	C5.15
Lei Ding	State Grid Heilongjiang Electric Power Co., Ltd.	1438 <i>Physics-informed neural network for outlet pressure prediction of the triplex pump</i>	
Zhan Li	Harbin Institute of Technology	Yuhang Cai	Anhui Univ.
14:26-14:34	C5.8	Kehao Shi	Hefei Comprehensive National Science Center
1283 基于两阶段图网络的复杂约束环境大批次目标分配方法研究		Yu Kang	Hefei Comprehensive National Science Center
Xinwen Ye	Fudan Univ.	Zhenyi Xu	Auhui Univ. of Technology
Yiqun Dong	Fudan Univ.	C6 2nd Floor Nanning Room3	
14:34-14:42	C5.9	Fusion GNC 2层 南宁厅 3	
1331 知识数据双驱动的空战目标轨迹预测研究		Chairs: Yiqun Dong	
Pengyu Luo	Fudan Univ.	13:30-13:38	C6.1
Yiqun Dong	Fudan Univ.	1250 大规模目标场景下动态缺失传感器量测中的鲁棒航迹关联	
14:42-14:50	C5.10	Lixin Han	Fudan Univ.
1343 基于神经过程的飞行员近距空战任务绩效预测		Jun Yao	Fudan Univ.
Jun Yao	Fudan Univ.	Pengyu Luo	Fudan Univ.
Yiqun Dong	Fudan Univ.	Yiqun Dong	Fudan Univ.
14:50-14:58	C5.11	13:38-13:46	C6.2
823 <i>Efficient structured information extraction for aviation hub data based on language model multiple sampling</i>		1206 <i>Study on the reconstruction of wing surface pressure fields based on sparse pressure data</i>	
Mengqiao Liu	Tsinghua Univ.	Yibo Zhao	Beihang Univ.
Yixuan Fan	Tsinghua Univ.	Yichu chen	Beihang Univ.
Haixu Li	Tsinghua Univ.	Tianxiang Hu	Beihang Univ.
Tao Xue	Tsinghua Univ.	13:46-13:54	C6.3
Tao Zhang	Tsinghua Univ.	1258 <i>Symplectic dynamic Hamiltonian pose estimator</i>	
14:58-15:06	C5.12	Bohuan Xue	South China Normal Univ.
591 <i>Adaptive online learning for industrial process monitoring via temporal feature enhancement and data lifecycle management</i>		Xiaoyu Tang	South China Normal Univ.
Linfeng Tong	Univ. of Science and Technology of China	Jintao Cheng	The Hong Kong Univ. of Science and Technology
Kehao Shi	Univ. of Science and Technology of China	13:54-14:02	C6.4
Yunbo Zhao	Univ. of Science and Technology of China	410 <i>A multi-sensor SLAM integrating radar, LiDAR, IMU, and camera via visual-residual gating</i>	
Yu Kang	Univ. of Science and Technology of China		

Wenxuan Ji	Beihang Univ.	Yichao Tang	Guilin Univ. of Electronic Technology
Jin Xiao	Beihang Univ.	Zhecheng Song	Guilin Univ. of Electronic Technology
Xiaoguang Hu	Beihang Univ.	Weilin chen	Guilin Univ. of Electronic Technology
Yu Huang	China Fire and Rescue Institute	Junxi Tian	Guilin Univ. of Electronic Technology
Jiaqi Shi	Beihang Univ.	14:42-14:50	C6.10
Jiajia Zhao	Beijing Institute of mechanical and electrical engineering	1696 Improving atom trapping performance of grating magneto-optical trap chips using flat-top beam	
Chuang Song	Beijing Institute of mechanical and electrical engineering	Yuchen Wang	AVIC Xi'an Flight Automatic Control Research Institute
Zichong Jia	Beihang Univ.	Weiqi Chen	AVIC Xi'an Flight Automatic Control Research Institute
Zijie Luo	Beihang Univ.	Kexiao Niu	AVIC Xi'an Flight Automatic Control Research Institute
14:02-14:10	C6.5	Yuanzheng Liu	AVIC Xi'an Flight Automatic Control Research Institute
469 Finite-time complementary filtering for aircraft attitude estimation: a comprehensive review of methods and challenges		14:50-14:58	C6.11
Linan Wang	Beijing Institute of Technology	328 面向余度传感器的多特征自适应融合方法实践	
Zhuo Liu	Southeast Univ.	Tong Guo	AVIC Chengdu Aircraft Design and Research Institute
Meng Zhang	Southeast Univ.	Lin Yang	AVIC Chengdu Aircraft Design and Research Institute
Jing Nie	Beijing Institute of Technology	Chenggang Tao	AVIC Chengdu Aircraft Design and Research Institute
14:10-14:18	C6.6	Jinliang Bian	AVIC Chengdu Aircraft Design and Research Institute
1681 Reliability-aware RGB-LiDAR semantic mapping with adaptive voxel update		Junquan Wang	Northwestern Polytechnical Univ.
Kunpeng Tu	The Hong Kong Univ. of Science and Technology (Guangzhou)	Rui Zhang	Northwestern Polytechnical Univ.
Han Zhang	The Hong Kong Univ. of Science and Technology (Guangzhou)	14:58-14:06	C6.12
Changhao Chen	The Hong Kong Univ. of Science and Technology (Guangzhou)	404 Advanced sensor-based rotor position detection and its application in permanent magnet motors	
14:18-14:26	C6.7	Wenjing Cui	AVIC Qing'an Group Co., Ltd.
1036 Multi-constellation GNSS robust positioning using truncated FDE of multiple faults		Xiaohui Song	AVIC Qing'an Group Co., Ltd.
Shengying Li	Southeast Univ.	Bo Wang	AVIC Qing'an Group Co., Ltd.
Penghui Liu	Southeast Univ.	14:06-14:14	C6.13
Qian Meng	Southeast Univ.	1598 Simulation method for airworthiness verification of FMS integrated navigation based on aerodynamic-navigation decoupling	
Yaxuan Cai	Southeast Univ.	Yilin Chen	Nanjing Univ. of Aeronautics and Astronautics
Fanchen Meng	Beijing Institute of Aerospace Control Devices	Rongbing Li	Nanjing Univ. of Aeronautics and Astronautics
Kai Guo	Beihang Univ.	Zhengcheng Hou	Nanjing Univ. of Aeronautics and Astronautics
14:26-14:34	C6.8	14:14-14:22	C6.14
504 基于 UWB/气压计复合因子的共面无人机集群鲁棒协同定位方法		1656 Safety analysis of management-technology systems: a scenario-driven case study of the Boeing 737 MAX 8 accidents	
Tianxyu Wu	Nanjing Univ. of Aeronautics and Astronautics	Xinran Chang	Tsinghua Univ.
Ling Zhang	Nanjing Univ. of Aeronautics and Astronautics	Mengjin Qu	Tsinghua Univ.
Chenfa Shi	Nanjing Univ. of Aeronautics and Astronautics	Qing Li	Tsinghua Univ.
Yilin Yang	Nanjing Univ. of Aeronautics and Astronautics	C7 2nd Floor Longsheng Room	
Zihao Jin	Nanjing Univ. of Aeronautics and Astronautics	Perception GNC 2 层 龙胜厅	
Zhi Xiong	Nanjing Univ. of Aeronautics and Astronautics	Chairs: Shike Long	
14:34-14:42	C6.9	13:30-13:38	C7.1
541 MMA-DODT: Multi-model adaptive dynamic object detection and tracking		1325 TS-YOLO for wind turbine blade defect detection	
Tao Shi	Guilin Univ. of Electronic Technology	Meiyong Wang	Guangxi Univ.
Xiaohuan Li	Guilin Univ. of Electronic Technology	Yongjun Wang	Guilin Univ. of Aerospace Technology
		Maged Al-Barashi	Guilin Univ. of Aerospace Technology

13:38-13:46		C7.2	Huimin Xue	Jiangmen Central Hospital
741 A segmented thermal compensation, turntable calibration, and weighted fusion method for redundant IMUS over wide temperature ranges			Yunde Li	Guilin Univ. of Aerospace Technology
			Wansheng Long	Jiangmen Central Hospital
			Bao Feng	Guilin Univ. of Aerospace Technology
			14:42-14:50	C7.10
Huichao Liu		Shanghai W-Ibeda High Tech. Group Co., Ltd.	1305 Fault estimation and fault-tolerant control for control surface electromechanical actuators subject to effectiveness degradation	
Bin Lan	Guilin Univ. of Aerospace Technology		Tianyou Han	National Univ. of Defense Technology
Shike Long	Guilin Univ. of Aerospace technology		Bowen Xu	National Univ. of Defense Technology
Heran Wang	Shanghai W-Ibeda High Tech. Group Co., Ltd.		Wei qi Yang	National Univ. of Defense Technology
13:46-13:54		C7.3	Xianyu Wu	National Univ. of Defense Technology
979 Attitude control method for multirotor unmanned aerial vehicles based on adaptive sliding mode control and a fractional-order extended state observer			14:50-14:58	C7.11
	Daofu He	Guilin Univ. of Electronic Technology	1465 Talent cultivation for aerospace GNC: research on teaching reform of virtual-real complementary and multidimensional symbiotic surface inspection technology	
	Shanlin Sun	Guilin Univ. of Aerospace Technology	Bo Zhang	Guilin Univ. of Aerospace Technology
	Shike Long	Guilin Univ. of Aerospace Technology	Tianlong Huo	Guilin Univ. of Aerospace Technology
13:54-14:02		C7.4	Yu Luo	Guilin Univ. of Aerospace Technology
1160 Informed-RRT*-based path planning with an improved artificial potential field and an adaptive guidance weight strategy			Jinghua Li	Guilin Univ. of Aerospace Technology
	Shilong Liu	Guilin Univ. of Electronic Technology	Nila Lan	Guilin Univ. of Aerospace Technology
	Yongjun Wang	Guilin Univ. of Aerospace Technology	14:58-15:06	C7.12
	Maged Al-Barashi	Guilin Univ. of Aerospace Technology	1472 Whirl flutter analysis in different flight modes of tiltrotor aircraft	
Lili Lu	Guilin Univ. of Aerospace Technology		Mingchun Wang	Guangdong Univ. of Technology
14:02-14:10		C7.5	Ruilan Chang	Guilin Univ. of Aerospace Technology
1184 Research on an RS-YOLO-based UAV landing target detection method			Yongjun Wang	Guilin Univ. of Aerospace Technology
	Qiang Li	Guilin Univ. of Technology	15:06-15:14	C7.13
	Yongjun Wang	Guilin Univ. of Aerospace Technology	1491 Infrared information-assisted low-light image enhancement and fusion	
	Chun yao Zhang	Guilin Univ. of Technology	Shengjia An	Guilin Univ. of Electronic Technology
14:10-14:18		C7.6	Zhi Li	Guilin Univ. of Electronic Technology
1211 Safe landing of a UAV based on MPC and high-order control barrier functionse			Shaorong Zhang	Guilin Univ. of Aerospace Technology
	Chun yao Zhang	Guilin Univ. of Technology	Yongjun Wang	Guilin Univ. of Aerospace Technology
	Yongjun Wang	Guilin Univ. of Aerospace Technology	Bineng Zhong	Guangxi Normal Univ.
	Qiang Li	Guilin Univ. of Technology	Heng Li	Guangxi Beitou IT Innovation Technology Investment Group Co., Ltd.
Maged Al-Barashi	Guilin Univ. of Aerospace Technology		15:14-15:22	C7.14
14:18-14:26		C7.7	1521 A novel method based on non-convex log regularization and fisher discriminant criterion constraint for motor imagery brain-computer interface decoding	
1425 PCA-Lasso based feature modeling and cholesterol prediction using bioimpedance spectroscopy			Benxin Zhang	Guilin Univ. of Electronic Technology
	Haoyue Xue	Guilin Univ. of Aerospace Technology	Yan Dong	Guilin Univ. of Electronic Technology
	Chuanpei Xu	Guilin Univ. of Electronic Technology	Yuanpeng Liang	Guilin Univ. of Electronic Technology
	Jianbo Ji	Guilin Univ. of Aerospace Technology	Yi Li	Guilin Univ. of Electronic Technology
Zhen Zhang	Guilin Univ. of Aerospace Technology		Tingshun Jia	Guilin Univ. of Electronic Technology
Peng Tang	Guilin Univ. of Electronic Technology		Yiru Guo	Guilin Univ. of Electronic Technology
14:26-14:34		C7.8	Shaorong Zhang	Guilin Univ. of Aerospace Technology
1429 Predefined-time trajectory tracking control for quadrotor circumnavigation of dynamic ground targets			15:22-15:30	C7.15
	Hua Tan	Guilin Univ. of Aerospace Technology	1526 FTAWB: An interactive fault tree analysis workbench for efficient aerospace system safety assessment	
	Xinchen Kang	Guilin Univ. of Aerospace Technology	Wei Luo	Guilin Univ. of Electronic Technology
	Shike Long	Guilin Univ. of Aerospace technology		
Yongjun Wang	Guilin Univ. of Aerospace Technology			
14:34-14:42		C7.9	C8 2nd Floor Guilin Room 1	
1451 基于双期相图像特征适配迁移网络的胃肿瘤分类方法			Cross-domain GNC 2 层 桂林厅 1	
	Yu Liu	Guilin Univ. of Aerospace Technology	Chairs: Qiang Shen	
	Liebin Huang	Jiangmen Central Hospital	13:30-13:38	
	Qinxian Chen	Jiangmen Central Hospital	C8.1	

347 <i>Generative–estimation synergy via bayesian reshaping of semantic priors for autonomous perception</i>		Zhen	
Ming Lei	Shanghai Jiao Tong Univ.	14:42-14:50	C8.10
Shufan Wu	Shanghai Jiao Tong Univ.	969 <i>Research on small target detection for spacecraft in complex space backgrounds</i>	
13:38-13:46	C8.2	Jiawen Qiao	Nanjing Univ. of Science and Technology
348 <i>Structured semantic priors-based robust multi-object tracking in cislunar environments</i>		Yifei Wu	Nanjing Univ. of Science and Technology
Ming Lei	Shanghai Jiao Tong Univ.	Qingwei Chen	Nanjing Univ. of Science and Technology
Shufan Wu	Shanghai Jiao Tong Univ.	14:50-14:58	C8.11
13:46-13:54	C8.3	1004 <i>SGC-Net: semantic-guided cross-modal modeling for RGB-D semantic segmentation in spaceborne environments</i>	
455 <i>3D Gaussian splatting reconstruction for vision-aided spacecraft inspection</i>		Zihong Yang	Nanjing Univ. of Science and Technology
Wenlong Lu	Shanghai Jiao Tong Univ.	Yukang Heng	Nanjing Univ. of Science and Technology
Fanqing Tu	Shanghai Jiao Tong Univ.	Yifei Wu	Nanjing Univ. of Science and Technology
Qiang Shen	Shanghai Jiao Tong Univ.	Qingwei Chen	Nanjing Univ. of Science and Technology
Shufan Wu	Shanghai Jiao Tong Univ.	14:58-15:06	C8.12
Yong Wang	Beijing Institute of Control Engineering	1161 <i>Plane point set registration method for long-distance targets</i>	
Vladimir Yu Razoumny	RUDN Univ.	Chenrong Long	Beijing Institute of Control Engineering
13:54-14:02	C8.4	Heng Shi	Beijing Institute of Control Engineering
756 <i>Anchor-point based Earth-Moon transfer trajectory design</i>		Qiang Yu	Beijing Institute of Control Engineering
Fanqing Tu	Shanghai Jiao Tong Univ.	Xiaoxiang Liu	Beijing Institute of Control Engineering
Yongchun Xie	Beijing Institute of Control Engineering	15:06-15:14	C8.13
Wenlong Lu	Shanghai Jiao Tong Univ.	1212 <i>双臂空间机器人协同力/阻抗无源性控制方法</i>	
Shufan Wu	Shanghai Jiao Tong Univ.	Hang Zhou	Shanghai Jiao Tong Univ.
14:02-14:10	C8.5	Qiang Shen	Shanghai Jiao Tong Univ.
917 <i>Research on a named entity recognition scheme for aerospace guidance, navigation, and control</i>		Shufan Wu	Shanghai Jiao Tong Univ.
Yi Sun	Nanjing Univ. of Science and Technology	15:14-15:22	C8.14
Yifei Wu	Nanjing Univ. of Science and Technology	1310 <i>在轨服务中基础视觉模型协同解析与轻量化部署发展综述</i>	
Qingwei Chen	Nanjing Univ. of Science and Technology	Zifang Wang	Beijing Institute of Control Engineering
14:10-14:18	C8.6	Yongchun Xie	Beijing Institute of Control Engineering
922 <i>An intelligent star identification algorithm based on coarse-to-fine hierarchical matching</i>		Yong Wang	Beijing Institute of Control Engineering
Zhichao Huang	Nanjing Univ. of Science and Technology	15:22-15:30	C8.15
Yifei Wu	Nanjing Univ. of Science and Technology	1422 <i>Evolution strategy-based minimum-fuel transfer trajectory in the Earth-Moon three-body system</i>	
Qingwei Chen	Nanjing Univ. of Science and Technology	Chi Han	Shanghai Jiao Tong Univ.
14:18-14:26	C8.7	Changqing Chen	Beijing Institute of Control Engineering
925 <i>SG-GRNet: Anti-interference and morphological perception detection algorithm for complex space station scenarios</i>		Fanqing Tu	Shanghai Jiao Tong Univ.
Zile Zhou	Nanjing Univ. of Science and Technology	Shufan Wu	Shanghai Jiao Tong Univ.
Yifei Wu	Nanjing Univ. of Science and Technology	C9 2nd Floor Guilin Room 2	
Qingwei Chen	Nanjing Univ. of Science and Technology	Positioning GNC 2层 桂林厅 2	
14:26-14:34	C8.8	Chairs: Xiaoyun Sun	
943 <i>An improved Votenet for 3D object detection in point clouds for space station scenarios</i>		13:30-13:38	C9.1
Guorong Zhang	Nanjing Univ. of Science and Technology	152 <i>基于逐点线性化的无托曳航天器编队分群一致性自适应姿态控制</i>	
Yifei Wu	Nanjing Univ. of Science and Technology	Haoyu Zheng	Nanjing Univ. of Aeronautics and Astronautics
Qingwei Chen	Nanjing Univ. of Science and Technology	Xiaoyun Sun	Nanjing Univ. of Aeronautics and Astronautics
14:34-14:42	C8.9	Shufan Wu	Shanghai Jiao Tong Univ.
957 <i>A high-precision visual localization and semantic-enhanced mapping method for dynamic space environments</i>		13:38-13:46	C9.2
Wenwen Lu	Nanjing Univ. of Science and Technology	361 <i>Coupling effect between capacitive displacement sensing unit and feedback control unit</i>	
Yifei Wu	Nanjing Univ. of Science and Technology	Hong Yang	Huazhong Univ. of Science and Technology
Qingwei Chen	Nanjing Univ. of Science and Technology	Hong Ma	Huazhong Univ. of Science and Technology
Guohong Wang	Nanjing Univ. of Science and Technology	Hua Zhang	Huazhong Univ. of Science and Technology
Yifan Peng	The Chinese Univ. of Hong Kong, Shen	Chong Zou	Huazhong Univ. of Science and Technology
		Yihe Chen	Huazhong Univ. of Science and Technology
		Lei Wang	Huazhong Univ. of Science and Technology

13:46-13:54	C9.3	1072 On-Ground test method, technology and application of space inertial sensor based on semiphsical simulation	
400 空间惯性传感器数字驱动建模及仿真验证		Yusheng Jie	Huazhong Univ. of Science and Technology
Zhu Zhu	Shanghai Institute of Satellite Engineering	Zhihao Liu	Huazhong Univ. of Science and Technology
Fan Zhang	Sun Yat-sen Univ.	Cheng Ma	Huazhong Univ. of Science and Technology
Qianyun Zhang	Shanghai Jiao Tong Univ.	Shaobo Qu	Huazhong Univ. of Science and Technology
Jinjin Xie	Southeast Univ.	Ming Hu	Huazhong Univ. of Science and Technology
Yi Xu	Shanghai Institute of Satellite Engineering	Yanzheng Bai	Huazhong Univ. of Science and Technology
13:46-13:54	C9.4	Zebing Zhou	Huazhong Univ. of Science and Technology
412 Design and implementation of a highly stable carrier generation and amplitude-phase control system		14:26-14:34	C9.9
Jiawen Lan	Huazhong Univ. of Science and Technology	1087 空间惯性传感器静电反馈控制系统设计与测试	
Jinhong Zou	Huazhong Univ. of Science and Technology	Hao Xu	Shanghai Jiao Tong Univ.
Zhiwen Xiao	Huazhong Univ. of Science and Technology	Qianyun Zhang	Shanghai Jiao Tong Univ.
Liang Lang	Huazhong Univ. of Science and Technology	Shufan Wu	Shanghai Jiao Tong Univ.
Quanliang Huang	Huazhong Univ. of Science and Technology	14:34-14:42	C9.10
Jia He	China Ship Development and Design Center	1178 Long short-term memory-based sliding mode recovery control strategy for drag-free satellites under micrometeoroid impacts	
Liangqi Gui	Huazhong Univ. of Science and Technology	Ya Wen	Sun Yat-sen Univ.
13:54-14:02	C9.5	Dexuan Zhang	Sun Yat-sen Univ.
873 Stability analysis of the mode switching from accelerometer mode to drag-free mode		Hongyin Li	Sun Yat-sen Univ.
Peng Zhou	Sun Yat-sen Univ.	Guoying Zhao	Sun Yat-sen Univ.
Sikai Miao	Sun Yat-sen Univ.	Junxiang Lian	Sun Yat-sen Univ.
Jiaxin Jiang	Sun Yat-sen Univ.	14:42-14:50	C9.11
Junxiang Lian	Sun Yat-sen Univ.	1225 模式切换的空间惯性传感器检验质量非仿射静电悬浮控制	
Hongyin Li	Sun Yat-sen Univ.	Mingze Chen	Nanjing Univ. of Science and Technology
Guoying Zhao	Sun Yat-sen Univ.	Baocang Gao	Nanjing Univ. of Science and Technology
14:02-14:10	C9.6	Xiaoyun Sun	Nanjing Univ. of Science and Technology
895 微推进器单向约束下引力波探测卫星倾斜平动耦合动力学建模与频域特性研究		Shufan Wu	Shanghai Jiao Tong Univ.
Junhao Lian	Sun Yat-sen Univ.	14:50-14:58	C9.12
Weikai Kong	Sun Yat-sen Univ.	1284 无拖曳航天器平台姿轨耦合动力学及其一致性全驱动控制	
Dexuan Zhang	Sun Yat-sen Univ.	Ziang Li	Nanjing Univ. of Science and Technology
Hongyin Li	Sun Yat-sen Univ.	Xiaoyun Sun	Nanjing Univ. of Science and Technology
Junxiang Lian	Sun Yat-sen Univ.	Qiang Shen	Shanghai Jiao Tong Univ.
Guoying Zhao	Sun Yat-sen Univ.	Huajun Gong	Nanjing Univ. of Science and Technology
14:10-14:18	C9.7	Ju Jiang	Nanjing Univ. of Science and Technology
921 Reliability improvement study of parallel reference sources for space inertial sensor driving circuits		Shufan Wu	Shanghai Jiao Tong Univ.
Zhe Han	Northeast Forestry Univ.	14:58-15:06	C9.13
Jiawei Zhang	Northeast Forestry Univ.	1382 柔性航天器编队分段一致性自适应重指向控制	
Qinbo Ma	Northeast Forestry Univ.	Xinglong Zhang	Nanjing Univ. of Science and Technology
Chong Mo	Northeast Forestry Univ.	Ziyuan Ma	Suzhou Univ. of Science and Technology
Liang Chen	Northeast Forestry Univ.	Haobo Wen	Nanjing Univ. of Science and Technology
Honghui Gao	Northeast Forestry Univ.	Xiaoyun Sun	Nanjing Univ. of Science and Technology
Ming Hu	Huazhong Univ. of Science and Technology	Xinhua Wang	Nanjing Univ. of Science and Technology
Jianping Huang	Northeast Forestry Univ.	15:14-15:22	C9.14
14:18-14:26	C9.8	1704 Multibody dynamics and visual simulation of TianQin satellites under typical perturbations	
		Jiaxin Jiang	Sun Yat-sen Univ.
		Dexuan Zhang	Sun Yat-sen Univ.
		Sikao Miao	Sun Yat-sen Univ.

Peng Zhou	Sun Yat-sen Univ	Shaomin He	AVIC Xi'an Flight Automatic Control Research Institute
Hongyin Li	Sun Yat-sen Univ		
Guoying Zhao	Sun Yat-sen Univ	14:10-14:18	C10.6
Junxiang Lian	Sun Yat-sen Univ	728 <i>A two-stage calibration method for microarray skylight polarized compass using second-harmonic decomposition</i>	
15:22-15:30	C9.15	Lianwei Teng	National Univ. of Defense Technology
1256 <i>Fault tree analysis for safety assessment of civil aircraft high-lift system</i>		Chen Fan	National Univ. of Defense Technology
Qing Xu	COMAC Shanghai Aircraft Design and Research Institute	Tongwei Ma	National Univ. of Defense Technology
C10	2nd Floor VIP Room 2	Sikai Wu	National Univ. of Defense Technology
Adaptive GNC	2 层 贵宾厅 2	Yangfan Xu	National Univ. of Defense Technology
Chairs: Xiaofeng He		Xiaofeng He	National Univ. of Defense Technology
13:30-13:38	C10.1	Lilian Zhang	National Univ. of Defense Technology
1006 <i>Aircraft control method based on four-mode hybrid control and TD3</i>		14:18-14:26	C10.7
Yongliang Hu	Northwestern Polytechnical Univ.	891 <i>Improving end-to-end visual odometry with differentiable multi-frame pose adjustment</i>	
Jingping Shi	Northwestern Polytechnical Univ.	Pengdong Wu	National Univ. of Defense Technology
Yongxi Lyu	Northwestern Polytechnical Univ.	Lilian Zhang	National Univ. of Defense Technology
13:38-13:46	C10.2	Jun Mao	National Univ. of Defense Technology
355 <i>Design of a heterogeneous UAV swarm command and control test system based on a distributed architecture</i>		Yangfan Xu	National Univ. of Defense Technology
Yunkai Ma	Xi'an Modern Control Technology Research Institute	Xiaofeng He	National Univ. of Defense Technology
Lisha Yao	Xi'an Modern Control Technology Research Institute	14:26-14:34	C10.8
Rizhong Wang	Xi'an Modern Control Technology Research Institute	902 <i>An adaptive dual-stream infrared visual-inertial odometry based on cross-attention fusion</i>	
Haotian Shi	Xi'an Modern Control Technology Research Institute	Ning Han	National Univ. of Defense Technology
Xiaowen Xi	Xi'an Modern Control Technology Research Institute	Xiaofeng He	National Univ. of Defense Technology
Ping Li	Xi'an Modern Control Technology Research Institute	Yangfan Xu	National Univ. of Defense Technology
13:46-13:54	C10.3	Jun Mao	National Univ. of Defense Technology
403 <i>Research on predefined-time incremental sliding mode control for wing-damaged tailless aircraft</i>		Lilian Zhang	National Univ. of Defense Technology
Kecheng Li	Northwestern Polytechnical Univ.	14:34-14:42	C10.9
Qun Zuo	Xi'an Modern Control Technology Research Institute	1226 <i>Adaptive-weighting tightly coupled mmWave radar/inertial integrated navigation via point-wise radial-velocity confidence assessment</i>	
Yuewen Wang	Northwestern Polytechnical Univ.	Yunmu Duan	National Univ. of Defense Technology
Xiaoxiong Liu	Northwestern Polytechnical Univ.	Ruiguang He	National Univ. of Defense Technology
13:54-14:02	C10.4	Zixuan Xie	National Univ. of Defense Technology
437 <i>Research on preview incremental nonlinear dynamic inversion for flight trajectory control</i>		Xiaofeng He	National Univ. of Defense Technology
Xiaochen Lyu	Northwestern Polytechnical Univ.	Xincan Luo	National Univ. of Defense Technology
Shipeng Wang	Northwestern Polytechnical Univ.	Jun Mao	National Univ. of Defense Technology
Yongxi Lyu	Northwestern Polytechnical Univ.	Lilian Zhang	National Univ. of Defense Technology
Jingping Shi	Northwestern Polytechnical Univ.	14:42-14:50	C10.10
14:02-14:10	C10.5	1262 <i>An improved UAV swarm cooperative navigation algorithm with robust low-rank distance matrix recovery in GNSS-denied environments</i>	
438 <i>Dynamic transition corridor and optimal transition trajectory for VTOL aircraft</i>		You He	National Univ. of Defense Technology
Qi Zhu	Northwestern Polytechnical Univ.	Xiaofeng He	National Univ. of Defense Technology
Jingping Shi	Northwestern Polytechnical Univ.	Xincan Luo	National Univ. of Defense Technology
Yongxi Lyu	Northwestern Polytechnical Univ.	Zhonghai Cheng	National Univ. of Defense Technology
Xiaobo Qu	Northwestern Polytechnical Univ.	Xiaofeng He	National Univ. of Defense Technology
Fuxiang Qiao	AVIC Xi'an Flight Automatic Control Research Institute	Jun Mao	National Univ. of Defense Technology
		14:50-14:58	C10.11
		1286 <i>An inertial-ranging integrated cooperative navigation approach with ranging compensation during bidirectional ranging</i>	
		Qihao Hu	National Univ. of Defense Technology
		Xincan Luo	National Univ. of Defense Technology
		Zhonghai Cheng	National Univ. of Defense Technology
		Xiaofeng He	National Univ. of Defense Technology
		Jun Mao	National Univ. of Defense Technology
		14:58-15:06	C10.12
		1299 <i>Consensus regrouping: bounded-state streaming visual</i>	

geometry with frozen predictors

Tianci Liu	National Univ. of Defense Technology
Lilian Zhang	National Univ. of Defense Technology
Yangfan Xu	National Univ. of Defense Technology
Jun Mao	National Univ. of Defense Technology
15:06-15:14	C10.13

1554 *Robust forward-looking sonar SLAM via location-aware ICP and geometry-aware constraint factors*

Xinyao Wei	Harbin Engineering Univ.
Zhongben Zhu	Harbin Engineering Univ.
Xiaokai Mu	Harbin Engineering Univ.
Hongde Qin	Harbin Engineering Univ.
15:14-15:22	C10.14

1635 *Wave distortion restoration-based orientation methodology for underwater polarization navigation*

Daizhuo Huang	Beijing Institute of Technology
Xia wang	Beijing Institute of Technology
Yuyang Li	Beijing Institute of Technology
15:22-15:30	C10.15

1637 *Histogram of the orientation distribution of the center-weighted descriptor for multi-modal remote sensing image matching*

Zhirui Zhang	Beijing Institute of Technology
Xia Wang	Beijing Institute of Technology
Fengwen Mi	Beijing Institute of Technology

C12 **2nd Floor Aisel**
Poster Session **2 层连廊厅**

Chairs: Yuming Meng	
08:30-12:00	C12.1

1238 *An improved ant colony algorithm-based method for unmanned aerial vehicle obstacle avoidance path planning*

Yifei Pei	AVIC Xi'an Flight Automatic Control Research Institute
Pu Chen	AVIC Xi'an Flight Automatic Control Research Institute
Guoliang Yang	AVIC Xi'an Flight Automatic Control Research Institute
Jinhong Zhang	AVIC Xi'an Flight Automatic Control Research Institute
Ze Zhang	AVIC Xi'an Flight Automatic Control Research Institute
Mengxue Nie	AVIC Xi'an Flight Automatic Control Research Institute
08:30-12:00	C12.2

1450 *面向区域目标的在线启发式多星协同调度方法*

Xinxi Zeng	Nanjing Univ. of Aeronautics and Astronautics
Dianyuan Zhang	Nanjing Univ. of Aeronautics and Astronautics
Xvxing Huang	Nanjing Univ. of Aeronautics and Astronautics
Shuang Li	Nanjing Univ. of Aeronautics and Astronautics
08:30-12:00	C12.3

1555 *Path planning for carrier aircraft hangar dispatch under towbarless towing kinematic constraints*

Yu Wu	Univ. of Electronic Science and Technology of China
Guo Lin	Univ. of Electronic Science and Technology of China
Tianjiao Liang	AVIC Chengdu Aircraft Design and Research Institute
Xiaoming Chen	AVIC Chengdu Aircraft Design and Research Institute
Weihao Li	Univ. of Electronic Science and Technology of China
Mengji Shi	Univ. of Electronic Science and Technology of China
Kaiyu Qin	Univ. of Electronic Science and Technology of China

08:30-12:00	C12.4
-------------	-------

1588 *Comprehensive evaluation and analysis of planned paths for ROVs under different deployment positions*

Yanbin Teng	Taihu Laboratory of Deepsea Technological Science
Lan Wu	Taihu Laboratory of Deepsea Technological Science
Yali Fan	Taihu Laboratory of Deepsea Technological Science

08:30-12:00	C12.5
-------------	-------

1589 *Evolution-based optimization for carrier-based aircraft arrangement on an aircraft carrier flight deck*

Yu Wu	Univ. of Electronic Science and Technology of China
Jiaxin Yang	Univ. of Electronic Science and Technology of China
Zehao Xie	AVIC Chengdu Aircraft Design and Research Institute
Chuanxiang Zhou	AVIC Chengdu Aircraft Design and Research Institute
Boxian Lin	Univ. of Electronic Science and Technology of China
Weihao Li	Univ. of Electronic Science and Technology of China
Mengji Shi	Univ. of Electronic Science and Technology of China

08:30-12:00	C12.6
-------------	-------

1599 *冗余自由度空间机械臂建模分析与运动控制*

Jiashuo Zhang	Beihang Univ.
Xinying Yu	Beihang Univ.
Hankai Zhao	Beihang Univ.
Xiang Lin	Beihang Univ.
Zichen Guo	Beihang Univ.
Shengqi Yang	Beihang Univ.
Xiao Xue	Beihang Univ.
Jiaqing He	Beihang Univ.
Rui Cheng	Beihang Univ.
Haichao Gui	Beihang Univ.

08:30-12:00	C12.7
-------------	-------

1617 *Design and implementation of ROS-based food delivery robot with ICP secondary positioning*

Hongfeng Zhu	Jingchu Univ. of Technology
Kejun Zhang	Jingchu Univ. of Technology

Xue Chen	Jingchu Univ. of Technology	Liucheng Xu	Beihang Univ.
Jingyi Huang	Jingchu Univ. of Technology	Wei Lan	Beihang Univ.
Jing Luo	Jingchu Univ. of Technology	08:30-12:00	C12.15
08:30-12:00	C12.8	945 <i>A method for determining RWS warning threshold curve by integrating aircraft performance and recovery strategies</i>	
1653 基于 ResNet-FPN 方向场引导的自适应 RRT* 路径规划算法		Jiayi Wang	Northwestern Polytechnical Univ.
Guanyu Jiang	Beihang Univ.	Yaming Xing	Northwestern Polytechnical Univ.
Zhuoxuan Wu	Beihang Univ.	Guangwen Li	Northwestern Polytechnical Univ.
Kun Wu	Beihang Univ.	Shaobo Zhai	Northwestern Polytechnical Univ.
Houhua Bian	Beihang Univ.	08:30-12:00	C12.16
08:30-12:00	C12.9	1077 <i>Identification of Key Nodes in Flight Conflicts for UAV Swarms Based on Complex Networks</i>	
947 <i>A dynamic UAV target allocation method based on a feasibility matrix</i>		Ziyan Zhang	Air Force Engineering Univ.
Siyu Tao	Beihang Univ.	Xiaolong Liang	Air Force Engineering Univ.
Chenyu Wang	Beihang Univ.	Aoyu Zheng	Air Force Engineering Univ.
Yunjie Wu	Beihang Univ.	Han Wang	Air Force Engineering Univ.
08:30-12:00	C12.10	Zhongjiacen	Air Force Engineering Univ.
467 <i>Automatic ground collision avoidance control method based on explicit model command trajectory prediction</i>		Zhiyang Zhang	Air Force Engineering Univ.
Furui Yu	AVIC Shenyang Aircraft Design and Research Institute	Shuangyan Chen	Air Force Engineering Univ.
Hao Liu	AVIC Shenyang Aircraft Design and Research Institute	Yuyan Xiao	Air Force Engineering Univ.
Jiawei Yang	AVIC Shenyang Aircraft Design and Research Institute	Huanyang Lou	Air Force Engineering Univ.
Shili Dong	AVIC Shenyang Aircraft Design and Research Institute	08:30-12:00	C12.17
Fangliu Jin	AVIC Shenyang Aircraft Design and Research Institute	1384 <i>Fuzzy logic decision-making and neural network incremental dynamic inversion-based attitude control of an aircraft with pilot mishandling</i>	
08:30-12:00	C12.11	Qian Zhang	Shanghai Jiao Tong Univ.
613 <i>Variable-parameter impedance control based on the improved sparrow search algorithm</i>		Weizhi Lyu	Shanghai Jiao Tong Univ.
Zhengyu Qu	Northwestern Polytechnical Univ.	Congjie Yang	Shanghai Jiao Tong Univ.
Zicheng Fan	Northwestern Polytechnical Univ.	Jiaxin Chen	Shanghai Jiao Tong Univ.
Jingzhou Gong	Northwestern Polytechnical Univ.	Shumin Pu	Shanghai Jiao Tong Univ.
Yaohong Qu	Northwestern Polytechnical Univ.	Shiqian Liu	Shanghai Jiao Tong Univ.
08:30-12:00	C12.12	Lianyu Guo	Shanghai Jiao Tong Univ.
646 <i>A feedback-based trajectory prediction and collision correction estimation method for the ground collision avoidance system</i>		Yunxin Meng	Shanghai Jiao Tong Univ.
Zhigang Luo	Aviation Key Laboratory of Science and Technology on Flight Control	08:30-12:00	C12.18
Ke Yu	Aviation Key Laboratory of Science and Technology on Flight Control	1685 <i>Input-compatible flight-envelope protection of underactuated hypersonic vehicles with asymmetric actuator saturation</i>	
Chao Jiang	Aviation Key Laboratory of Science and Technology on Flight Control	Jinlu Dong	Shanghai Jiao Tong Univ.
Xiaofeng Sun	Aviation Key Laboratory of Science and Technology on Flight Control	Mingdong Hou	Shanghai Jiao Tong Univ.
Longzhen Hu	Aviation Key Laboratory of Science and Technology on Flight Control	Renming Yang	Shanghai Jiao Tong Univ.
08:30-12:00	C12.13	08:30-12:00	C12.19
775 <i>Research on safety risks of helicopter flight testing</i>		126 <i>Research on the progress and supporting technologies of cross domain unmanned aerial vehicle cluster</i>	
Huiwen Han	Chinese Flight Test Establishment of AVIC	Mingqiu Ren	Air Force Early Warning Academy
08:30-12:00	C12.14	Bingqie Wang	Air Force Early Warning Academy
878 基于面部特征融合的飞行员疲劳检测算法		Yi Leng	Air Force Early Warning Academy
Genchao Liu	Beihang Univ.	08:30-12:00	C12.20
Kun Wu	Beihang Univ.	505 <i>Distributed cooperative guidance for UAVs simultaneous arrival with collision avoidance</i>	
		Hailong Yan	Northwestern Polytechnical Univ.
		Zhiwei Zhang	Aerospace Information Research Institute, CAS
		Hongjun Chu	Hangzhou Dianzi Univ.
		Zhe Yu	Xidian Univ.
		08:30-12:00	C12.21
		727 <i>Three-dimensional prescribed performance guidance law with impact angle and field-of-view constraints</i>	

Hongyu Wang	Beijing Information Science and Technology Univ.	Shengjie Ma	AVIC Xi'an Flight Automatic Control Research Institute
Yi Ji	Beijing Information Science and Technology Univ.	Tongyang Chen	AVIC Xi'an Flight Automatic Control Research Institute
Yuchen Wang	Beijing Institute of Technology	Hang Shu	AVIC Xi'an Flight Automatic Control Research Institute
Sixing Zhang	Beijing Information Science and Technology Univ.		
Junfang Fan	Beijing Information Science and Technology Univ.		
08:30-12:00	C12.22	08:30-12:00	C12.26
815 <i>Trajectory reconstruction of projectile based on fixed interval smoothing algorithm</i>		1217 <i>基于时域包络的半球谐振子振动参数辨识方法</i>	
Kai Chen	Northwestern Polytechnical Univ.	Yucheng Zhu	Beihang Univ.
Yongchao Wang	Northwestern Polytechnical Univ.	Junlin Luo	Beihang Univ.
Pengli Wu	Northwestern Polytechnical Univ.	Tengfei	Beihang Univ.
Sicheng Yang	Northwestern Polytechnical Univ.	Ang Li	Beihang Univ.
Jinlong Song	Naval Univ. of Engineering	Shilei Zhang	Beihang Univ.
Xiangping Li	Naval Univ. of Engineering	Kaifei Li	Beihang Univ.
Chengzhi Zeng	Northwestern Polytechnical Univ.	Xiaobin Xu	Beihang Univ.
08:30-12:00	C12.23	08:30-12:00	C12.27
962 <i>TVGDO-MPC for quadrotor trajectory tracking under wind disturbances</i>		1645 <i>PSO-based adaptive covariance optimized Kalman filter for gyroscope bias fusion estimation and noise suppression</i>	
Yifei Zhao	Beijing Institute of Technology	Chenlu Li	Xi'an Microelectronics Technology Institute
Yong Xu	Beijing Institute of Technology	Hui Wang	Xi'an Microelectronics Technology Institute
Borui Sun	Beijing Institute of Technology	Long Wang	Xi'an Microelectronics Technology Institute
Xuan Wen	Beijing Institute of Technology	Liyang Zhou	Xi'an Microelectronics Technology Institute
Xiong Chen	Beijing Institute of Technology	Hui Fang	Xi'an Microelectronics Technology Institute
Ying Liu	Zhongjike (Beijing) Vehicle Testing Engineering	08:30-12:00	C12.28
Yinghao Chen	Zhongjike (Beijing) Vehicle Testing Engineering	173 <i>Research on error source analysis and precision enhancement methodology for spaceborne visual sensors in relative measurement</i>	
Chengran Qi	Beijing Institute of Technology	Xingtian Liu	Beijing Institute of Control Engineering
08:30-12:00	C12.24	Qihai Liu	Beijing Institute of Control Engineering
771 <i>Simulation analysis of light-pulse atom interferometers with continuous atomic beams: a framework for robust dynamic environment applications</i>		Jianmin Zhou	Beijing Institute of Control Engineering
Nongchao Xin	Aviation Key Laboratory of Science and Technology on Quantum Sensing and Positioning Navigation Timing	Jie Bao	Beijing Institute of Control Engineering
Xiaodong Qu	Aviation Key Laboratory of Science and Technology on Quantum Sensing and Positioning Navigation Timing	Yunfei Xu	Beijing Institute of Control Engineering
Shengjun Wang	Aviation Key Laboratory of Science and Technology on Quantum Sensing and Positioning Navigation Timing	Tao Huang	Beijing Institute of Control Engineering
Yi Zhang	Aviation Key Laboratory of Science and Technology on Quantum Sensing and Positioning Navigation Timing	08:30-12:00	C12.29
Zhiqiang Yao	Aviation Key Laboratory of Science and Technology on Quantum Sensing and Positioning Navigation Timing	733 <i>Research on atmospheric parameter estimation method for re-entry phase based on dual-frequency EKF fusion</i>	
08:30-12:00	C12.25	Yu Wang	Northwestern Polytechnical Univ.
880 <i>Method for reducing the start-up time of whole-angle mode hemispherical resonator gyroscope based on BP neural network</i>		Xiaoye Bi	Shenyang Aircraft Design and Research Institute
Sen Yang	AVIC Xi'an Flight Automatic Control Research Institute	Jun Liu	Shenyang Aircraft Design and Research Institute
		Yueming Zhu	Shenyang Aircraft Design and Research Institute
		Shangyin Ren	Shenyang Aircraft Design and Research Institute
		08:30-12:00	C12.30
		893 <i>Multi-parameter calibration for liquid circular angular accelerometer based on extended Kalman filter</i>	
		Zitian Xiong	Beijing Institute of Technology
		Meiling Wang	Beijing Institute of Technology
		Chaoyang Zhai	Beijing Institute of Technology
		Zhiheng Xiao	Beijing Institute of Technology
		Zixian Zu	Beijing Institute of Technology
		Renjie Li	Beijing Institute of Technology
		08:30-12:00	C12.31
		916 <i>Liquid circular angular accelerometer denoising based on dilated residual network fusing linear acceleration</i>	

08:30-12:00	C12.42	Zhishan Yang	The First Aircraft Institute of Aviation Industry Corporation of China
113 <i>Dynamic simulation analysis of the cabin door opening mechanism based on LMS motion</i>		Xu Zhang	The First Aircraft Institute of Aviation Industry Corporation of China
Weijuan Zheng	Qing'An Group Co., Ltd.	Wenjing Hei	The First Aircraft Institute of Aviation Industry Corporation of China
Hongjun Pang	Qing'An Group Co., Ltd.		
08:30-12:00	C12.43		
121 导航软件桌面仿真运行环境设计与实现		08:30-12:00	C12.48
Congchao Wang	AVIC Xi'an Flight Automatic Control Research Institute	661 <i>Design and static strength analysis of civil fire-fighting aircraft water tank support structure</i>	
Qingchun Yang	AVIC Xi'an Flight Automatic Control Research Institute	Yukang Ren	Shanghai Aircraft Design and Research Institute
Mengfei Qiao	AVIC Xi'an Flight Automatic Control Research Institute	Qi Chen	Shanghai Aircraft Design and Research Institute
Shenjian Qu	AVIC Xi'an Flight Automatic Control Research Institute	Pengfei Zhang	Shanghai Aircraft Design and Research Institute
Longhui Yao	AVIC Xi'an Flight Automatic Control Research Institute	Zhengyi Zhu	Shanghai Aircraft Design and Research Institute
Shaolong Song	AVIC Xi'an Flight Automatic Control Research Institute		
08:30-12:00	C12.44	08:30-12:00	C12.49
176 <i>Research on aerodynamic and structural design technology of ducted fan for ducted eVTOL</i>		697 <i>Terminal navigation parameter inversion based on meta-learning physics-informed neural networks</i>	
Zengyong An	Qing'An Group Co., Ltd.	Zijian Cui	Beijing Institute of Astronautical Systems Engineering
Hui Wang	Qing'An Group Co., Ltd.	Jun Zhang	Beijing Institute of Astronautical Systems Engineering
Yuan Sun	Qing'An Group Co., Ltd.	Rubin Luo	Beijing Institute of Astronautical Systems Engineering
08:30-12:00	C12.45		
443 飞管系统余度管理自动测试平台设计		08:30-12:00	C12.50
Zhiqiang Ai	AVIC Shenyang Aircraft Design and Research Institute	868 <i>An enhanced architecture trade-off analysis method for embedded systems: integrating AADL and MCDM</i>	
Xiaoye Bi	AVIC Shenyang Aircraft Design and Research Institute	Zelin Li	AVIC Xi'an Flight Automatic Control Research Institute
Yang Wang	AVIC Shenyang Aircraft Design and Research Institute	Yazhou Yue	AVIC Xi'an Flight Automatic Control Research Institute
Hongbo Zhu	AVIC Shenyang Aircraft Design and Research Institute	Dantao Zhang	AVIC Xi'an Flight Automatic Control Research Institute
Yue Hu	AVIC Shenyang Aircraft Design and Research Institute	Tao Wang	AVIC Xi'an Flight Automatic Control Research Institute
Lingwei Kong	AVIC Shenyang Aircraft Design and Research Institute	Hongming Liu	AVIC Xi'an Flight Automatic Control Research Institute
08:30-12:00	C12.46	Zhiyong Tan	AVIC Xi'an Flight Automatic Control Research Institute
525 <i>Design of an open-source graphical simulation platform based on MBD and its application in INDI control law design</i>		Qiqi Xue	AVIC Xi'an Flight Automatic Control Research Institute
Dezhang Zhou	Southwest Univ. of Science and Technology	Yingnan Tong	AVIC Xi'an Flight Automatic Control Research Institute
Hai Chen	China Aerodynamics Research and Development Center	Weitong Li	AVIC Xi'an Flight Automatic Control Research Institute
Tao Liu	Southwest Univ. of Science and Technology		
Yinan Kong	China Aerodynamics Research and Development Center	08:30-12:00	C12.51
Tun Zhao	China Aerodynamics Research and Development Center	982 <i>Research on low-stress packaging of MEMS disk resonant gyroscope</i>	
08:30-12:00	C12.47	Jiawei Song	AVIC Xi'an Flight Automatic Control Research Institute
564 <i>Dynamic simulation study of radio navigation based on MATLAB/Simulink App Designer</i>		Jian Wang	AVIC Xi'an Flight Automatic Control Research Institute
Wenchao Liu	The First Aircraft Institute of Aviation Industry Corporation of China	Yuzhe Zhang	AVIC Xi'an Flight Automatic Control Research Institute

Wenhong Li	AVIC Xi'an Flight Automatic Control Research Institute	Yongyi Liu	AVIC Shenyang Aircraft Design and Research Institute
Pingtailei Lv	AVIC Xi'an Flight Automatic Control Research Institute	Chong Zhen	AVIC Shenyang Aircraft Design and Research Institute
08:30-12:00	C12.52	Hongrun Yin	AVIC Shenyang Aircraft Design and Research Institute
1045 <i>An automated method for test script generation in flight control redundancy management</i>			
Gang Yang	AVIC Xi'an Flight Automatic Control Research Institute	Yue Wang	AVIC Shenyang Aircraft Design and Research Institute
Jia Tian	AVIC Xi'an Flight Automatic Control Research Institute	08:30-12:00	C12.57
Lin Yang	AVIC Xi'an Flight Automatic Control Research Institute	1437 <i>Research on trajectory planning for spray painting robotic arm based on MATLAB-CoppeliaSim</i>	
Shaolong Song	AVIC Xi'an Flight Automatic Control Research Institute	Wendian Zhang	Changchun Technical Univ.
08:30-12:00	C12.53	08:30-12:00	C12.58
1056 <i>Research on automated modeling and simulation verification of flight control logic based on large language model agents</i>			
Zhaoxu Yang	AVIC Chengdu Aircraft Design and Research Institute	1623 <i>Study on civil helicopter unusable fuel supply airworthiness certification method</i>	
Yinchao Chen	AVIC Chengdu Aircraft Design and Research Institute	Hui Zhao	China Helicopter Research and Development Institute
Tao Wang	AVIC Chengdu Aircraft Design and Research Institute	Ziyue Qu	China Helicopter Research and Development Institute
Hongyu Yan	AVIC Chengdu Aircraft Design and Research Institute	Yueping Hou	China helicopter reach and design institution
Kai Wang	AVIC Chengdu Aircraft Design and Research Institute	Donglin Wang	Guangzhou Aircraft Certification Center, Civil Aviation Administration of China
08:30-12:00	C12.54	08:30-12:00	C12.59
1082 <i>Simulink modeling of electromechanical servo mechanism system for a flight vehicle</i>			
Yiran Ding	Beijing Aerospace Automatic Control Institute	1625 <i>Design of fixed-point navigation system for hospital ward meal delivery cart based on ROS</i>	
Wenbo Fan	Beijing Aerospace Automatic Control Institute	Xiaojian Zhao	Jingchu Univ. of Technology
Yao Zhao	State Key Laboratory of Aerospace Intelligent Control Technology	Kejun Zhang	Jingchu Univ. of Technology
Fei Luo	Beijing Aerospace Automatic Control Institute	Xue Chen	Jingchu Univ. of Technology
Xinmin Zhang	Beijing Aerospace Automatic Control Institute	Jing Luo	Jingchu Univ. of Technology
08:30-12:00	C12.55	Jingyi Huang	Jingchu Univ. of Technology
1123 <i>VTOL 复合翼与常规布局机翼气动弹性对比</i>			
Zhao Yang	AVIC Xi'an Flight Automatic Control Research Institute	08:30-12:00	C12.60
Bojia Zeng	Shenyang Aerospace Univ.	1639 <i>Design and simulation of ROS-based hospital patrol robot system</i>	
Gang Cheng	Shanghai Maritime Univ.	Wenqiang Wu	Jingchu Univ. of Technology
Guoqiang Yang	AVIC Xi'an Flight Automatic Control Research Institute	Kejun Zhang	Jingchu Univ. of Technology
Dongliang Song	AVIC Xi'an Flight Automatic Control Research Institute	Xue Chen	Jingchu Univ. of Technology
Mingming Tian	AVIC Xi'an Flight Automatic Control Research Institute	Wenhua Gou	Jingchu Univ. of Technology
Yiming Du	Shenyang Aerospace Univ.	Jing Luo	Jingchu Univ. of Technology
08:30-12:00	C12.56	08:30-12:00	C12.61
1432 <i>基于高精度同步的飞控软件虚拟仿真验证技术</i>			
		135 <i>Safety analysis of typical aircraft trim function based on dynamic fault tree</i>	
		Lu Sun	Shenyang Aircraft Corporation
		Wenzhe Li	AVIC Shenyang Aircraft Design and Research Institute
		Fangliu Jin	AVIC Shenyang Aircraft Design and Research Institute
		Zhaohui Lin	Shenyang Aircraft Corporation
		08:30-12:00	C12.62
208 <i>Remaining useful life prediction based on autoencoder and maximum mean discrepancy</i>			
		Yufeng Qin	Naval Aviation Univ.
		Yong Song	Shandong Univ.
		Qi Wang	Naval Aviation Univ.
		Chengcheng Han	Naval Aviation Univ.
		Jinhe Yu	Naval Aviation Univ.

Dong Yue	Naval Aviation Univ.		
08:30-12:00	C12.63		
356 <i>PIAL: Physics-informed adaptive LSTM for few-shot battery SOH prediction in UAVs</i>			
Jingyan Zhao	Northwestern Polytechnical Univ.		
Hongwu Xu	Aerospace Standardization Research Institute		
Xiaoxiang Hu	Northwestern Polytechnical Univ.		
Yuewen Wang	Northwestern Polytechnical Univ.		
Chen Yang	Northwestern Polytechnical Univ.		
08:30-12:00	C12.64		
583 <i>General quality characteristics co-simulation based on logical and physical model mapping</i>			
Lina Qiao	China Electronic Product Reliability and Environmental Testing Research Institute		
Fan Zhang	China Electronic Product Reliability and Environmental Testing Research Institute		
Duoqia Huang	China Electronic Product Reliability and Environmental Testing Research Institute		
08:30-12:00	C12.65		
801 <i>水平安定面作动系统的安全控制架构研究</i>			
Zhenxin Yan	AVIC Xi'an Flight Automatic Control Research Institute		
Le Song	AVIC Xi'an Flight Automatic Control Research Institute		
Kunxiao Tian	AVIC Xi'an Flight Automatic Control Research Institute		
Siyuan Cai	AVIC Xi'an Flight Automatic Control Research Institute		
Linguan Jiao	AVIC Xi'an Flight Automatic Control Research Institute		
08:30-12:00	C12.66		
867 <i>Research on automatic grouping and configuration technology of flight parameter based on ARINC 767 standard</i>			
Zhu Li	Hangzhou Dianzi Univ.		
Jingyu Zhang	Hangzhou Dianzi Univ.		
Shuangyun Ma	Hangzhou Dianzi Univ.		
08:30-12:00	C12.67		
1098 <i>QCCS: A scoring method for evaluating quantum code comments</i>			
Jinlong Wen	Beihang Univ.		
Xiaohan Yu	Beihang Univ.		
Beibei Yin	Beihang Univ.		
08:30-12:00	C12.68		
1430 <i>SAST+SCA 融合漏洞监测技术在飞控领域的应用</i>			
Qi Zhang	AVIC Shenyang Aircraft Design and Research Institute		
Dapeng Zhou	AVIC Shenyang Aircraft Design and Research Institute		
Shuangfei Fu	AVIC Shenyang Aircraft Design and Research Institute		
Ting Wang	AVIC Shenyang Aircraft Design and Research Institute		
08:30-12:00	C12.69		
1597 <i>Testability modeling method for civil aircraft fly-by-wire flight control systems oriented to airline operations</i>			
Renqing Zhai	AVIC Xi'an Flight Automatic Control Research Institute		
Mingzhuang Zhang	AVIC Xi'an Flight Automatic Control Research Institute		
Linyi Zhi	Aircraft Strength Research Institute of China		
Zhuang Xie	AVIC Xi'an Flight Automatic Control Research Institute		
08:30-12:00	C12.70		
1636 <i>Analysis of deep learning-based DDoS defense strategies for UAV networks</i>			
Zhiqiang Liu	Guilin Univ. Of Aerospace Technology		
Lijun Xu	Guilin Univ. of Aerospace Technology		
Zeyu Tang	Guilin Univ. of Aerospace Technology		
08:30-12:00	C12.71		
1705 <i>Design of a real-time monitoring system for FL51 wind tunnel VFD based on virtual instruments</i>			
Yutong Sun	AVIC Aerodynamics Research Institute		
Yuanshou Li	AVIC Aerodynamics Research Institute		
Songchen Han	AVIC Aerodynamics Research Institute		
Dan Jia	AVIC Aerodynamics Research Institute		
08:30-12:00	C12.72		
1316 <i>Research on airworthiness compliance flight test verification methods for minimum control speed in the air of civil aircraft</i>			
Haijun Ma	Civil Aircraft Flight Test Center		
08:30-12:00	C12.73		
1370 <i>Research on verification method of airworthiness compliance of lightning protection clause for civil aircraft</i>			
Yan Liu	AVIC Xi'an Flight Automatic Control Research Institute		
Chao Zhang	AVIC Aerospace Systems Co.,Ltd.		
Li Li	AVIC Xi'an Flight Automatic Control Research Institute		
08:30-12:00	C12.74		
1735 <i>Safety assessment of eVTOL power systems under different tilt mechanism configurations</i>			
Jianzhong Yang	Civil Aviation Univ. of China		
Baosong Ji	Civil Aviation Univ. of China		
Xiaozhe Sun	Civil Aviation Univ. of China		
08:30-12:00	C12.75		
1752 <i>Construction and evaluation of a college students' mental health teaching model based on connectivism</i>			
Shuailing Zhu	Guilin Univ. of Aerospace Technology		
Wei Liu	Guilin Univ. of Aerospace Technology		
08:30-12:00	C12.76		
323 <i>Case-based learning in intelligent control theory curriculum: an integrated design case for aerial combat decision-making</i>			
Lingyu Yang	Beihang Univ.		
Jie Yuan	Beihang Univ.		
Jing Zhang	Beihang Univ.		
Weiqi Li	Beihang Univ.		
08:30-12:00	C12.77		
547 <i>An experimental method for flight quality improvement integrating curriculum-based ideological and political education</i>			

Xiaoguang Wang	Air Force Engineering Univ.				Astronautics
Xiaoping Wang	Air Force Engineering Univ.			Pin Lyu	Nanjing Univ. of Aeronautics and
Hongbo Li	Air Force Engineering Univ.				Astronautics
08:30-12:00	C12.78			Jizhou Lai	Nanjing Univ. of Aeronautics and
1427 From “basic verification” to “intelligent computing integration”: practical computer teaching paradigm reconstruction in local applied universities					Astronautics
Hua Yang	Guilin Univ. of Aerospace Technology			Diyi Xiao	Nanjing Univ. of Aeronautics and
Shiwei Wei	Guilin Univ. of Aerospace Technology				Astronautics
Jing Huang	Guilin Univ. of Aerospace Technology			Yuxuan Chen	Nanjing Univ. of Aeronautics and
Wei Liu	Guilin Univ. of Aerospace Technology				Astronautics
08:30-12:00	C12.79			08:30-12:00	C12.86
1439 Research on the reform of human resource management talent training in the context of artificial intelligence				676 Topological skeleton-guided viewpoint generation and utility evaluation for autonomous exploration in unknown indoor environments	
Binghui Luo	Guilin Univ. of Aerospace Technology			Yicong Chen	Nanjing Univ. of Aeronautics and
08:30-12:00	C12.80				Astronautics
1452 Reconstructing hadoop teaching in the iterative process of big data technology				Ziyu Zheng	Nanjing Univ. of Aeronautics and
Ping Sun	Guilin Normal Univ.				Astronautics
Yong Zhang	Guilin Univ. of Aerospace Technology			Jie Chen	Nanjing Univ. of Aeronautics and
08:30-12:00	C12.81				Astronautics
1454 Is the construction of demonstrative industry colleges conducive to enhancing students' employability? A case study of the jd intelligent supply chain industry college				Pin Lyu	Nanjing Univ. of Aeronautics and
Bian Tang	Guilin Univ. of Aerospace Technology				Astronautics
Pengfei Guo	Chongqing Technology and Business Univ.			Jizhou Lai	Nanjing Univ. of Aeronautics and
Yuelan Shi	Guangxi Normal Univ.				Astronautics
08:30-12:00	C12.82			Cheng Yuan	Nanjing Univ. of Aeronautics and
1608 Educational innovation practice of “hang v” intelligent team based on unmanned vehicles					Astronautics
Xinhong Yang	Guilin Univ. of Aerospace Technology			08:30-12:00	C12.87
Shudao Wang	Guilin Univ. of Aerospace Technology			693 Hierarchical autonomous exploration via global sequence planning and local distance-field-constrained path optimization	
Beini Wang	EMC Information Technology R&D(Beijing)Co., Ltd.			Wenxuan Zeng	AVIC First Aircraft Design and
Tingpeng Li	Guilin Univ. of Aerospace Technology				Research Institute
Lingling Guan	Guilin Univ. of Aerospace Technology			Ziyu Zheng	Nanjing Univ. of Aeronautics and
Jiliang Yi	Guilin Univ. of Aerospace Technology				Astronautics
08:30-12:00	C12.83			Yicong Chen	Nanjing Univ. of Aeronautics and
1655 “AI+工业”赋能交通运输（民航机务工程）专业的智能信息处理课程体系重构与实践					Astronautics
Kun Wu	Beihang Univ.			Jizhou Lai	Nanjing Univ. of Aeronautics and
Jiao Jia	Beihang Univ.				Astronautics
Huaxin Qiu	Beihang Univ.			Pin Lyu	Nanjing Univ. of Aeronautics and
Wei Lan	Beihang Univ.				Astronautics
08:30-12:00	C12.84			Cheng Yuan	Nanjing Univ. of Aeronautics and
1692 Exploration of typical application cases in matrix theory and its applications: reinforcement learning-based cooperative control of multi-agent systems					Astronautics
Haibo Gu	Beihang Univ.			08:30-12:00	C12.88
Qingkang Meng	Beihang Univ.			1138 A lightweight method for constructing structural semantic maps based on multi-sensor fusion in indoor environments	
08:30-12:00	C12.85			Ruien Mao	Nanjing Univ. of Aeronautics and
454 Distributed collaborative LIDAR SLAM based on BTC descriptors					Astronautics
Yuxing Shi	Nanjing Univ. of Aeronautics and			Jiaxuan Wang	Nanjing Univ. of Aeronautics and
	Astronautics				Astronautics
Jiong Li	Nanjing Univ. of Aeronautics and			Wenxuan Zeng	Avionics System Design Institute
				Jiazhou Lai	Nanjing Univ. of Aeronautics and
					Astronautics
				Pin Lyu	Nanjing Univ. of Aeronautics and
					Astronautics
				08:30-12:00	C12.89
				248 Scenario-driven design of next-generation air traffic management systems	
				Mengjin Qu	Tsinghua Univ.
				Shihong Li	Tsinghua Univ.

Pengpeng Guo	Tsinghua Univ.		and Research Institute
Ziang Wang	Tsinghua Univ.	Bin Li	Sichuan Univ.
Qing Li	Tsinghua Univ.	08:30-12:00	C12.97
08:30-12:00		C12.90	
639 Application of a controller design method based on the integration of structure search and parameter optimization to a launch vehicle attitude control system			
Kan Yang	92942 Unit of PLA		
Ming Xiao	92942 Unit of PLA		
Shuailei Wang	92942 Unit of PLA		
Yajie Du	92942 Unit of PLA		
Qing Li	Tsinghua Univ.		
08:30-12:00		C12.91	
654 Robust control for helicopters under tail rotor stuck faults using NDO-INDI and RIFTC			
Liyan Feng	Nanjing Univ. of Aeronautics and Astronautics		
Panpan Xiong	Nanjing Univ. of Aeronautics and Astronautics		
Shouzhao Sheng	Nanjing Univ. of Aeronautics and Astronautics		
08:30-12:00		C12.92	
659 Intelligent decision-making and control for helicopter autorotation flare landing based on SAC and INDI			
Dongyang Fan	Nanjing Univ. of Aeronautics and Astronautics		
Yanfeng Liu	Nanjing Univ. of Aeronautics and Astronautics		
Panpan Xiong	Nanjing Univ. of Aeronautics and Astronautics		
Shouzhao Sheng	Nanjing Univ. of Aeronautics and Astronautics		
08:30-12:00		C12.93	
753 A causal-aware safety control framework for human-machine systems based on CPSS			
Shihong Li	Tsinghua Univ.		
Yu Jin	Tsinghua Univ.		
Mengjin Qu	Tsinghua Univ.		
Pengpeng Guo	Tsinghua Univ.		
Qing Li	Tsinghua Univ.		
08:30-12:00		C12.94	
888 Application of large language models in UAV swarm command and control tasks			
Liang Yu	AVIC Xi'an Flight Automatic Control Research Institute		
Xinzhe Lei	AVIC Xi'an Flight Automatic Control Research Institute		
08:30-12:00		C12.95	
804 A stochastic optimization approach to heterogeneous satellite scheduling under cloud uncertainty			
Jian Kuang	Sichuan Univ.		
Bin Li	Sichuan Univ.		
08:30-12:00		C12.96	
854 DMPC for UAV formation with adaptive connectivity maintenance			
Ming Yang	Sichuan Univ.		
Qi Zhang	AVIC Shenyang Aircraft Design		

			</

Yihao Chen	Sichuan Univ.	Qiang Chen	Zhejiang Univ. of Technology
Songyi Dian	Sichuan Univ.	Beiping Hou	Zhejiang Univ. of Science and Technology
Bin Guo	Sichuan Univ.		
Hongwei Fang	Sichuan Univ.		
08:30-12:00	C12.105	08:30-12:00	C12.111
258 <i>Main satellite attitude dynamics of space tether formation considering deployment mechanism coupling</i>		1267 <i>基于预设轨迹的变体飞行器鲁棒预定时间跟踪控制</i>	
Ying Zhang	Northwestern Polytechnical Univ.	Lin He	Xiangtan Univ.
Changqing Wang	Northwestern Polytechnical Univ.	Yingquan Nie	Xiangtan Univ.
Hongshi Lu	Northwestern Polytechnical Univ.	Zurong Wu	Xiangtan Univ.
Aijun Li	Northwestern Polytechnical Univ.	Wenrui Shi	Xiangtan Univ.
08:30-12:00	C12.106	08:30-12:00	C12.112
610 <i>Improved RTMpose-based keypoint detection and 3d mapping for space non-cooperative targets</i>		1302 <i>Tip clearance protection for coaxial compound helicopters based on peak response estimation</i>	
Chaoshuo Liu	Northwestern Polytechnical Univ.	Sijie Dai	Northwestern Polytechnical Univ.
Changqing Wang	Northwestern Polytechnical Univ.	Yinchao Chen	AVIC Chengdu Aircraft Design and Research Institute
Zhengchen Fan	Northwestern Polytechnical Univ.	Zhenyu Wang	AVIC Chengdu Aircraft Design and Research Institute
Guangdong Zhang	Northwestern Polytechnical Univ.	Zhong Wang	Northwestern Polytechnical Univ.
Xiangdong Sheng	China Merchants Bank Network Technology (Shenzhen) Co., Ltd.	Yan Li	Northwestern Polytechnical Univ.
08:30-12:00	C12.107	08:30-12:00	C12.113
1624 <i>Research on unsteady aerodynamic modeling based on flow separation model and deep neural network</i>		514 <i>Polarization-aware incremental HRRP recognition with mild energy constraint</i>	
Zhigang Wang	Shanghai Aircraft Flight Test Co.,Ltd.	Xiaoyu Xu	Naval Aviation Univ.
Rui Zhao	Northwestern Polytechnical Univ.	Mingbo Zhu	Naval Aviation Univ.
Yi Mi	Shanghai Aircraft Flight Test Co.,Ltd.	Bo Dan	Naval Aviation Univ.
Jiaxiang Han	Northwestern Polytechnical Univ.	Zhengwu Li	Naval Aviation Univ.
08:30-12:00	C12.108	08:30-12:00	C12.114
466 <i>Environmentally aware adaptive path planning for low-altitude urban drones heuristic search framework</i>		599 <i>An oFAST-rBRIEF and genetic-algorithm-based coarse-to-fine method for infrared and visible image registration of circuit board</i>	
Ruijie Song	Hohai Univ.	Hui Li	Naval Aviation Univ.
Haohan Zhang	Hohai Univ.	Heng Li	Naval Aviation Univ.
Liangdong Wen	Hohai Univ.	Yanzi Miao	China Univ. of Mining and Technology
08:30-12:00	C12.109	Zhiyang Xu	China Univ. of Mining and Technology
491 <i>Prescribed-Time attitude control for loitering munitions</i>		Xiuzhen Wu	Naval Aviation Univ.
Lei Su	Xi'an Modern Control Technology Research Institute	08:30-12:00	C12.115
Jianwei Li	Xi'an Modern Control Technology Research Institute	798 <i>A spatial gating and scale-adaptive approach for dense UAV crowd tracking</i>	
Tao Yu	Xi'an Modern Control Technology Research Institute	Yong Liang	Naval Aviation Univ.
Gang Wang	Xi'an Modern Control Technology Research Institute	Zhengwu Li	Naval Aviation Univ.
Xingchen Li	Xi'an Modern Control Technology Research Institute	Shi Yan	Naval Aviation Univ.
08:30-12:00	C12.110	Xiaoyu Xu	Naval Aviation Univ.
961 <i>Prescribed-time attitude tracking control of rigid spacecraft with guaranteed performance under arbitrary initial conditions</i>		08:30-12:00	C12.116
Shuzong Xie	Zhejiang Univ. of Science and Technology	1190 <i>Research on initial alignment method for dual-axis rotation modulation inertial navigation system</i>	
Junyu Chen	Zhejiang Univ. of Science and Technology	Ruitao Li	Naval Aeronautical Univ.
Xiaoyu Yang	Zhejiang Univ. of Technology	Shi Yan	Naval Aeronautical Univ.
Jiahao Huang	Zhejiang Univ. of Science and Technology	08:30-12:00	C12.117
		1192 <i>基于引导形态学规划的低空高速突防航迹生成方法</i>	
		Shi Yan	Naval Aeronautical Univ.
		Guilin Wu	Nanjing Univ. of Aeronautics and Astronautics
		Yong Liang	Naval Aeronautical Univ.
		08:30-12:00	C12.118
		1289 <i>基于时间同步的多无人机协同环绕控制</i>	
		Yahui Qi	Naval Aeronautical Univ.
		Luyu Liu	Naval Aeronautical Univ.

Xiuzhen Wu	Naval Aeronautical Univ.		
08:30-12:00	C12.119		
1720 <i>Target allocation method for UAV swarm collaborative rescue based on SA-PSO</i>			
Shicheng Xiong	Unit 92942 of the PLA		
Shuailei Wang	Unit 92942 of the PLA		
XueLiang Tian	Unit 92942 of the PLA		
08:30-12:00	C12.120		
427 <i>Domain generalization for wind turbine defect detection under adverse weather conditions</i>			
Jinhan Zhou	Shantou Univ.		
Jingwei Sun	Shantou Univ.		
08:30-12:00	C12.121		
650 <i>Towards real-time UAV-anti-UAV tracking: an embedded hardware platform and lightweight benchmark</i>			
Yunsong Bai	Sun Yat-sen Univ.		
Zhe Zhang	Sun Yat-sen Univ.		
Ruhai Long	Sun Yat-sen Univ.		
Mingyuan Li	Sun Yat-sen Univ.		
Chengwei Li	Sun Yat-sen Univ.		
Yong Wang	Sun Yat-sen Univ.		
Shunan Wu	Sun Yat-sen Univ.		
ZhiGang Wu	Sun Yat-sen Univ.		
08:30-12:00	C12.122		
679 <i>Occlusion-aware data augmentation for domain generalization in wind turbine blade instance segmentation</i>			
Shuxing He	Shantou Univ.		
Jingwei Sun	Shantou Univ.		
Mingwei Wang	Shantou Univ.		
Shuonan Zheng	Shantou Univ.		
Lishuang Yao	Shantou Univ.		
08:30-12:00	C12.123		
1094 <i>On the transferability of DINO-GFSA to nighttime satellite-thermal geo-localization</i>			
Yuanshen Guo	Sun Yat-sen Univ.		
Beier Hu	Sun Yat-sen Univ.		
Zihao Hua	Sun Yat-sen Univ.		
Yong Wang	Sun Yat-sen Univ.		
Shunan Wu	Sun Yat-sen Univ.		
ZhiGang Wu	Sun Yat-sen Univ.		
08:30-12:00	C12.124		
1164 <i>An improved YOLO method with feature enhancement and attention guidance for wind turbine blade defect detection in complex scenarios</i>			
Jingwei Sun	Shantou Univ.		
Mingwei Wang	Shantou Univ.		
Zexiao Wei	Shantou Univ.		
Kaibing Zhou	Shantou Univ.		
Jie Guo	Shantou Univ.		
08:30-12:00	C12.125		
1713 <i>Research on a wind turbine blade damage detection model based on an improved YOLOv5</i>			
Haohan Wu	Shantou Univ.		
Kunyu Li	Shantou Univ.		
Zexiao Wei	Shantou Univ.		
Jingwei Sun	Shantou Univ.		
08:30-12:00	C12.126		
200 <i>Research on ground taxiing deviation correction for UAV</i>			
Jingjing He	AVIC the First Aircraft Institute		
Zhixuan Su	AVIC the First Aircraft Institute		
Xiaolei Ma	AVIC the First Aircraft Institute		
Haogang Zhao	AVIC the First Aircraft Institute		
08:30-12:00	C12.127		
1061 <i>Integrated management and control design method for UAV airborne equipment</i>			
Yanhao Liu	AVIC the First Aircraft Institute		
Yan Zhu	AVIC the First Aircraft Institute		
08:30-12:00	C12.128		
205 <i>Gated predictive attention transformer for multi-agent BVR air combat under partial observability</i>			
Zheng Guo	Beihang Univ.		
Jianglong Yu	Beihang Univ.		
Yiming Chen	Beihang Univ.		
Kanghao Zhang	Beihang Univ.		
Zhang Ren	Beihang Univ.		
08:30-12:00	C12.129		
559 <i>Teaching reform and development of a flagship course in guidance and control under the "double first-class" initiative</i>			
Jianglong Yu	Beihang Univ.		
Linpu Cai	Beihang Univ.		
Xiawang Dong	Beihang Univ.		
Zhang Ren	Beihang Univ.		
08:30-12:00	C12.130		
1175 <i>Modeling and simulation of elastic projectiles at high angles of attack</i>			
Yanhong Wei	Beihang Univ.		
Jianglong Yu	Beihang Univ.		
08:30-12:00	C12.131		
1356 <i>Time-coordinated trajectory planning for multi-UAV systems in bounded crosswinds: an analytical dimensionality-reduction memetic approach</i>			
Hou Yi	Beihang Univ.		
Jianglong Yu	Beihang Univ.		
Xianyi Yang	Beihang Univ.		
08:30-12:00	C12.132		
1405 <i>Cooperative kalman filtering for target acceleration estimation with LSTM-based covariance prediction</i>			
Changhai Wang	Beijing Institute of Astronautical System Engineering		
Yu Hu	Beijing Institute of Astronautical System Engineering		
Jianglong Yu	Beihang Univ.		
Xiawang Dong	Beihang Univ.		
Qingdong Li	Beihang Univ.		
08:30-12:00	C12.133		
1092 <i>基于切换事件触发的导弹指定精度制导律研究</i>			
Yuxin Gao	Tianjin Sino-German Univ. of Applied Sciences		
Jingliang Sun	Beijing Institute of Technology		
Lian Chen	Tianjin Sino-German Univ. of Applied Sciences		
Donglin Zhou	Tianjin Sino-German Univ. of Applied Sciences		
08:30-12:00	C12.134		

1583 *Clutter-aware query assignment for small object detection in aerial imagery*

Chenxi Zhang	Beijing Univ. of Technology
Quan Hao	Beijing Univ. of Technology
Heng Deng	Beijing Univ. of Technology
Liguo Zhang	Beijing Univ. of Technology
08:30-12:00	C12.135

1144 *Frequency modulation is not dead: the implementation of the large dynamic range, high accuracy, and low noise HRG*

Kaichen Yan	Northwestern Polytechnical Univ.
Xiaoxu Wang	Northwestern Polytechnical Univ.
Rao Wang	Northwestern Polytechnical Univ.
Lei Fu	Northwestern Polytechnical Univ.
Qianbo Lu	Northwestern Polytechnical Univ.
08:30-12:00	C12.136

201 *Quantum single-photon detection-oriented fast X-ray pulsar period estimation method*

Tianhao Xie	Beihang Univ.
Xiaoyu Yang	Beihang Univ.
Xin Ma	Beihang Univ.
08:30-12:00	C12.137

1116 *Influence analysis of polarization azimuth drift error in comagnetometers*

Lele Ma	Beihang Univ.
Haoying Pang	Beihang Univ.
Jixi Lu	Beihang Univ.
08:30-12:00	C12.138

1446 *SERF 惯性测量气室高精度交流温控系统设计*

Chenran Liu	Beihang Univ.
Wenfeng Fan	Beihang Univ.
Can Wang	Hangzhou Institute of Extremely-Weak Magnetic Field Major National Science and Technology Infrastructure
08:30-12:00	C12.139

658 *Magnetic signal detection and feature analysis of lung dust simulants based on a 64-channel atomic magnetometer array*

Zhen Zhai	China Jiliang Univ.
Xinxu Zhou	National Institute of Extremely-Weak Magnetic Field Infrastructure
Baosheng Wang	National Institute of Extremely-Weak Magnetic Field Infrastructure
Xiaole Han	National Institute of Extremely-Weak Magnetic Field Infrastructure
08:30-12:00	C12.140

1500 *Magnetic-field-enhanced modulation transfer spectroscopy of the 770 nm potassium atomic transition*

Le Wang	Beihang Univ.
Xinxu Zhou	Beihang Univ.
Wenlei Zhao	Beihang Univ.
08:30-12:00	C12.141

1523 *Precision temperature control and wideband servo techniques for PDH frequency stabilization*

Tiantian Guo	Beihang Univ.
Xinxu Zhou	Beihang Univ.
Zhaoyang Cao	Beihang Univ.
Wenlei Zhao	Beihang Univ.
08:30-12:00	C12.142

734 *基于可变组件复用的飞控系统软件技术研究*

Yongyi Liu	AVIC Shenyang Aircraft Design and Research Institute
Zhigang Wang	AVIC Shenyang Aircraft Design and Research Institute
Yixuan Wu	AVIC Shenyang Aircraft Design and Research Institute
Limeng Zhao	AVIC Shenyang Aircraft Design and Research Institute
08:30-12:00	C12.143

757 *The prediction of missile aerodynamic characteristics under body separation wake interference*

Jianwen Zang	Dalian Univ. of Technology
Ming Yan	Dalian Univ. of Technology
Yue Zhang	Dalian Univ. of Technology
Yanqi Feng	Sun Yat-sen Univ.
Kai Liu	Dalian Univ. of Technology
08:30-12:00	C12.144

903 *An OS-ELM-based online residual identification method for predictive control-oriented aerodynamic modeling*

Zeyu Jin	Dalian Univ. of Technology
Kai Liu	Dalian Univ. of Technology
Qingfeng Zhao	Dalian Univ. of Technology
Ming Yan	Dalian Univ. of Technology
08:30-12:00	C12.145

1638 *Redundant flight control system integrator design methods*

Yanguo Hu	AVIC Shenyang Aircraft Design and Research Institute
Yifan Qi	AVIC Shenyang Aircraft Design and Research Institute
Yuxiang Qiu	AVIC Shenyang Aircraft Design and Research Institute
Jingling Gui	AVIC Shenyang Aircraft Design and Research Institute
08:30-12:00	C12.146

1147 *Adaptive control for multi-UAV cooperative transportation based on integral backstepping and geometric sliding mode*

Yunjie Lei	Shandong Univ. of Aeronautics
Yuxun Cao	Shandong Univ. of Aeronautics
Wenlai Ma	Shandong Univ. of Aeronautics
Wei Hao	Shandong Univ. of Aeronautics
Tong Mei	Shandong Univ. of Aeronautics
Ruian Wang	Shandong Univ. of Aeronautics
08:30-12:00	C12.147

1149 *Anti-swing control design for quadrotor uav with elastic cable-suspended payload based on adaptive fractional-order sliding mode*

Yuxun Cao	Shandong Univ. of Aeronautics
Yunjie Lei	Shandong Univ. of Aeronautics
Wei Hao	Shandong Univ. of Aeronautics
Wenlai Ma	Shandong Univ. of Aeronautics
Tong Mei	Shandong Univ. of Aeronautics
Ruian Wang	Shandong Univ. of Aeronautics
08:30-12:00	C12.148

1354 *Research on multi-agent path planning in terminal buildings based on the improved MAPPO algorithm*

Guochen Niu	Civil Aviation Univ. of China
-------------	-------------------------------

Yi Man	Civil Aviation Univ. of China	Advanced Research
08:30-12:00	C12.149	Yilan Zhou Zhejiang Univ.
1358 一种面向消费级深度相机的计算摄影框架		Tengchao Huang Zhejiang Univ.
Guochen Niu	Civil Aviation Univ. of China	08:30-12:00
Haoyu Zhou	Civil Aviation Univ. of China	C12.156
08:30-12:00	C12.150	394 <i>Multi-UAV cooperative interception method based on improved self-organizing model</i>
1389 面向动态环境的服务机器人自适应权重模型预测控制安全导航方法		Wenjin Liu AVIC XI'an Flight Automatic Control Research institute
Chuansu Peng	Civil Aviation Univ. of China	Ke Yu AVIC XI'an Flight Automatic Control Research institute
Xiao Luo	Civil Aviation Univ. of China	Nan Han AVIC XI'an Flight Automatic Control Research institute
Haoyu Zhou	Civil Aviation Univ. of China	Chao Jiang AVIC XI'an Flight Automatic Control Research institute
Guochen Niu	Civil Aviation Univ. of China	08:30-12:00
08:30-12:00	C12.151	C12.157
1392 基于视觉的飞行区空域入侵物追踪与轨迹预测方法		1155 <i>A goal-oriented multi-agent pursuit method for unmanned surface vessels based on MADDPG-HER</i>
Guochen Niu	Civil Aviation Univ. of China	Tianlin Chen Shanghai Univ.
Zhihao Lv	Civil Aviation Univ. of China	Xiaoqing Chen National Innovation Institute of Defense Technology
08:30-12:00	C12.152	Zhifei Xi National Innovation Institute of Defense Technology
577 <i>Intelligent identification of flight vehicle under incomplete information conditions</i>		Rui Song Shanghai Univ.
Zhengquan Liu	Rocket Force Univ. of Engineering	Rong Feng National Innovation Institute of Defense Technology
Yang Guo	Rocket Force Univ. of Engineering	Dongke Liu Shanghai Univ.
Haitao Song	Rocket Force Univ. of Engineering	Yan Peng Shanghai Univ.
Xiaoyu Ma	Rocket Force Univ. of Engineering	08:30-12:00
Meixi Xu	Rocket Force Univ. of Engineering	C12.158
Jian Zhou	Xi'an Modern Control Technology Research Institute	1214 <i>TriMamba-OC: Tri-branch temporal perception for USV collision avoidance under ocean current disturbances</i>
08:30-12:00	C12.153	Yu Zhang Shanghai Univ.
619 <i>Modeling dual-point total-field magnetic velocity observation with optical-pump magnetometers</i>		Xiangfeng Ma CSSC Systems Engineering Research Institute
Changchao Wang	Zhejiang Univ.	Rui Song Shanghai Univ.
Mingxian Fu	Zhejiang Univ.	Hanxiao Liu Shanghai Univ.
XiaoXiang Liu	Zhejiang Univ.	Yan Peng Shanghai Univ.
Shuai Zhao	Jiangxi Qiushi Academy of Advanced Research	08:30-12:00
Tengchao Huang	Zhejiang Univ.	C12.159
Yilan Zhou	Zhejiang Univ.	1348 <i>A causal attention-enhanced UAV intent recognition framework for low-altitude safety protection decision-making</i>
08:30-12:00	C12.154	Jinyu Ma Univ. of Shanghai for science and technology
635 <i>A method for vector magnetic measurement data compensation based on total field optimization</i>		Yang Zhang No. 92728 Unit of PLA
Dehui Zhang	Rocket Force Univ. of Engineering	Yunxiao Liu China Aeronautical Radio Electronics Research Institute
Ting Li	Rocket Force Univ. of Engineering	Jianliang Ai Fudan Univ.
Jinsheng Zhang	Rocket Force Univ. of Engineering	Han Li Univ. of Shanghai for Science and Technology
Xiaoyu Ma	Rocket Force Univ. of Engineering	08:30-12:00
Jingya Chen	Rocket Force Univ. of Engineering	C12.160
Yao Luo	China Aero Geophysical Survey and Remote Sensing Center for Natural Resources	1355 <i>A review of automated course of action generation technologies for aviation equipment</i>
Shihua Liu	China Aero Geophysical Survey and Remote Sensing Center for Natural Resources	Liangfeng Chen Univ. of Shanghai for Science and Technology
08:30-12:00	C12.155	Yang Zhang Naval Aeronautical Univ.
642 <i>INER-SSM: State space modeling for inertial navigation error dynamics in high-dynamic environments</i>		Yunxiao Liu China Aeronautical Radio Electronics Research Institute
Mingxian Fu	Zhejiang Univ.	Jianliang Ai Fudan Univ.
Changchao Wang	Zhejiang Univ.	Han Li Univ. of Shanghai for Science and Technology
XiaoXiang Liu	Zhejiang Univ.	
Shuai Zhao	Jiangxi Qiushi Academy of	

	Technology		
08:30-12:00	C12.161	Xinyu Yang	Taiyuan Univ. of Technology
580 <i>Heterogeneous UAV air combat cooperative decision-making via situation-based hierarchical reinforcement learning</i>		Rong Li	Taiyuan Univ. of Technology
Qing Zhang	Beihang Univ.	Guoqiang Li	Shanxi Key Laboratory of Nuclear and Radiation Emergency
Yangzhu Wang	Beihang Univ.	Xinying Xu	Taiyuan Univ. of Technology
Xiaoman Zhang	Beihang Univ.	08:30-12:00	C12.169
Kun Wu	Beihang Univ.	853 <i>无人直升机有限时间非对称约束抗干扰飞行跟踪控制</i>	
Huaxin Qiu	Beihang Univ.	Ruihan He	Xi'an Univ. of Technology
08:30-12:00	C12.162	Yankai Li	Xi'an Univ. of Technology
803 <i>Distributed approach for multi-satellite task allocation based on potential game and dynamic programming</i>		Yihan Wang	Xi'an Univ. of Technology
Junchi Shi	Beijing Univ. of Technology	Dongping Li	Xi'an Technological Univ.
Changhao Sun	China Academy of Space Technology	Shuyi Shao	Nanjing Univ. of Aeronautics and Astronautics
Xiangyin Zhang	Beijing Univ. of Technology	Pu Zhang	Xi'an Univ. of Technology
08:30-12:00	C12.163	Yuan Chen	Xi'an Univ. of Technology
976 <i>Vertical overload prediction during aircraft landing based on GRU-attention model enhanced by holistic swarm optimization</i>		08:30-12:00	C12.170
Wubin Huang	Beihang Univ.	1536 <i>Resilient average consensus against collusive network attacks</i>	
Huaxin Qiu	Beihang Univ.	Qiu Li	Nanjing Univ. of Aeronautics and Astronautics
Yangzhu Wang	Beihang Univ.	Bin Du	Nanjing Univ. of Aeronautics and Astronautics
Wei Lan	Beihang Univ.	08:30-12:00	C12.171
Yang Meng	Beihang Univ.	1736 <i>Development of a quadrotor UAV experimental platform for education</i>	
Li Shen	Beihang Univ.	WenXue Bao	Jiangsu Univ. of Science and Technology
08:30-12:00	C12.164	Hui Ye	Jiangsu Univ. of Science and Technology
1130 <i>Performance analysis of a space-based optical observation system for geostationary orbit</i>		Meng Ni	Jiangsu Univ. of Science and Technology
Ying Yang	China Academy of Space Technology	Yaohua Shen	Jiangsu Univ. of Science and Technology
Changhao Sun	China Academy of Space Technology	08:30-12:00	C12.172
Qingrui Zhou	China Academy of Space Technology	131 <i>Research on a deep learning-based aircraft skin defect detection and recognition system</i>	
08:30-12:00	C12.165	Shun Wang	Qilu Univ. of Technology
1365 <i>基于大语言模型多智能体协同的卫星动态调度冲突消解策略</i>		Yiqun Lv	Qilu Univ. of Technology
Ying Cheng	Hefei Univ. of Technology	Qingzhao Jia	Qilu Univ. of Technology
Haiquan Sun	Hefei Univ. of Technology	Yanqiang Li	Qilu Univ. of Technology
Junting Wang	Hefei Univ. of Technology	Daifeng Zhang	Qilu Univ. of Technology
Wei Xia	Hefei Univ. of Technology	08:30-12:00	C12.173
08:30-12:00	C12.166	132 <i>Time-domain UVLM aerodynamic modeling and validation for wind gust response in high aspect ratio UAVs</i>	
189 <i>Performance-guaranteed prescribed-times optimized control of quadrotor UAVs with asymmetric constraints and disturbances</i>		Qingzhao Jia	Qilu Univ. of Technology
Ce Wang	Anhui Univ. of Technology	Shun Wang	Qilu Univ. of Technology
Zhengguo Huang	Anhui Univ. of Technology	Yiqun Lv	Qilu Univ. of Technology
XiangYu Xu	Anhui Univ. of Technology	Yanqiang Li	Qilu Univ. of Technology
Jing Wang	Anhui Univ. of Technology	Daifeng Zhang	Qilu Univ. of Technology
Hao Shen	Anhui Univ. of Technology		
Lei Su	Anhui Univ. of Technology		
08:30-12:00	C12.167		
582 <i>Adaptive noise-aware robust information-consensus EKF for distributed bearing-only localization in non-coplanar rendezvous</i>			
Zihan Zhen	Nanjing Univ. of Aeronautics and Astronautics		
Zengliang Han	Nanjing Univ. of Aeronautics and Astronautics		
Min Wan	Nanjing Univ. of Aeronautics and Astronautics		
08:30-12:00	C12.168		
692 <i>基于DQN 载核辐射监测无人机路径规划算法研究</i>			

Yimin Deng	Beihang Univ.	Chenggang Wang	Shanghai Jiao Tong Univ.
Yongbin Sun	Beihang Univ.	Bochen Li	Shanghai Jiao Tong Univ.
Haibin Duan	Beihang Univ.	Lu Ding	Guang Xi Univ.
16:01-16:09	D1.3	Dan Huang	Shanghai Jiao Tong Univ.
553 <i>Cauchy-Gaussian adaptive mutation pigeon-inspired optimization for integral sliding mode control of aerial manipulator</i>		Lei Song	Shanghai Jiao Tong Univ.
Deshuang Zhang	Beihang Univ.	Huaping Liu	Tsinghua Univ.
Chen Wei	Beihang Univ.	17:05-17:13	D1.11
Haibin Duan	Beihang Univ.	974 <i>A multi-agent test case generation framework for military GNC software</i>	
16:09-16:17	D1.4	Gang Yang	AVIC Xi'an Flight Automatic Control Research Institute
1550 <i>Graph convolutional network guided artificial hummingbird clustering topology optimization for FANETs</i>		Jia Tian	AVIC Xi'an Flight Automatic Control Research Institute
Zhuolin Xing	Nanjing Univ. of Aeronautics and Astronautics	17:13-17:21	D1.12
Ke Zhang	Nanjing Univ. of Aeronautics and Astronautics	1093 <i>P3RAG: Process parameter planning via retrieval-augmented generation</i>	
Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics.	Yihui Wang	Beijing Institute of Technology
Wanglei Cheng	Nanjing Univ. of Aeronautics and Astronautics	Meiling Wang	Beijing Institute of Technology
16:17-16:25	D1.5	Xiaohan He	Beijing Institute of Technology
240 <i>融合障碍函数的拉格朗日安全强化学习无人机动态避让规划</i>		Yinchi Li	Beijing Institute of Technology
Zan Ma	Civil Aviation Univ. of China	Ming Jian	Beijing Institute of Technology
Chunlin He	Civil Aviation Univ. of China	Shuming Zhang	Beijing Institute of Technology
Liqin Yan	Civil Aviation Univ. of China	17:21-17:29	D1.13
Jie Bai	Civil Aviation Univ. of China	1244 <i>基于瞬态感知 Shapelet 与集成相关性剪枝的多传感器液压系统故障诊断</i>	
16:25-16:33	D1.6	Lu Lu	Nanjing Univ. of Aeronautics and Astronautics
480 <i>Data-driven modeling of collective pigeon motion via behavior cloning</i>		Yajie Ma	Nanjing Univ. of Aeronautics and Astronautics
Yichen Tao	Beihang Univ.	Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics
Haibin Duan	Beihang Univ.	Qian Wang	Nanjing Univ. of Aeronautics and Astronautics
Mengzhen Huo	Beihang Univ.	17:29-17:37	D1.14
16:33-16:41	D1.7	1394 <i>Fixed-topology formation circumnavigation tracking control for second-order multi-agent systems</i>	
518 <i>A lightweight YOLOv5-FFM model for UAV-based occluded pedestrian detection</i>		Changhai Wang	Tsinghua Univ.
Xiaotong Zou	Beihang Univ.	Yu Hu	Beijing Institute of Astronautical System Engineering
Zhihao Cai	Beihang Univ.	17:37-17:45	D1.15
Jiang Zhao	Beihang Univ.	1498 <i>Research on adaptive step length estimation based on CNN-BiLSTM</i>	
Yingxun Wang	Beihang Univ.	Miao Zhang	Nanjing Univ. of Aeronautics and Astronautics
16:41-16:49	D1.8	Zhi Xiong	Nanjing Univ. of Aeronautics and Astronautics
687 <i>Research on a quantitative evaluation method for drill bit wear based on 3D scanning and computer vision</i>		Xiaodong Li	Nanjing Univ. of Aeronautics and Astronautics
Yuanfei Zhang	China Univ. of Petroleum	Yan Cui	Nanjing Univ. of Aeronautics and Astronautics
Yu Song	China Univ. of Petroleum	Ling Zhang	Nanjing Univ. of Aeronautics and Astronautics
Kun Jiang	China Univ. of Petroleum	16:49-16:57	D1.9
16:49-16:57	D1.9	838 <i>Disturbance modeling and compensation for quadrotors in confined spaces</i>	
838 <i>Disturbance modeling and compensation for quadrotors in confined spaces</i>		Huarui Xu	Harbin Institute of Technology
Huarui Xu	Harbin Institute of Technology	Xu Wang	Harbin Institute of Technology
Xu Wang	Harbin Institute of Technology	Rui Zhou	Harbin Institute of Technology
Rui Zhou	Harbin Institute of Technology	Yanfang Liu	Harbin Institute of Technology
Yanfang Liu	Harbin Institute of Technology	Zhan Li	Harbin Institute of Technology
Zhan Li	Harbin Institute of Technology	16:57-17:05	D1.10
16:57-17:05	D1.10	938 <i>Target allocation under logical constraints based on decision-focused learning</i>	
938 <i>Target allocation under logical constraints based on decision-focused learning</i>		Haoxuan Zhang	Shanghai Jiao Tong Univ.
Haoxuan Zhang	Shanghai Jiao Tong Univ.		

Zhihua Cui	Taiyuan Univ. of Science and Technology	Changhao Sun	China Academy of Space Technology
Hongyan Jiang	Taiyuan Univ. of Science and Technology	16:41-16:49	D2.8
Ling Wang	Tsinghua Univ.	381 融合地平线几何约束与光流运动特性的无人机自适应跟踪姿态估计	
Tianhao Zhao	Taiyuan Univ. of Science and Technology	Shan Li	North Univ. of China
Xingjuan Cai	Taiyuan Univ. of Science and Technology	Xindong Wu	North Univ. of China
15:53-16:01	D2.2	Huijun Zhao	North Univ. of China
302 Communication-efficient distributed equilibrium seekings for cluster games: A compressed gradient tracking approach		Xiaochen Liu	North Univ. of China
Fan Li	Northeastern Univ.	Chong Shen	North Univ. of China
Kunpeng Zhang	Northeastern Univ.	16:49-16:57	D2.9
Lei Xu	KTH Royal Institute of Technology	527 A fast and accurate feature-attention-based stereo visual inertial odometry method for autonomous robot	
Tao Yang	Northeastern Univ.	Kezhi Wang	Univ. of Science and Technology of China
16:01-16:09	D2.3	Leyang Wang	Univ. of Science and Technology of China
1461 A generic algorithm framework for distributed optimization over time-varying networks with communication delays and its extension to Nash equilibrium seeking		Zonghai Chen	Univ. of Science and Technology of China
Jie Liu	Southeast Univ.	Jikai Wang	Univ. of Science and Technology of China
16:09-16:17	D2.4	16:57-17:05	D2.10
1227 LAIO: A lightweight instantaneous neural inertial odometry for real-time UAV state estimation		1468 Monte carlo pose uncertainty analysis for failure prediction in ORB-SLAM3	
Weijie Sang	Beijing Information Science and Technology Univ.	Bohuan Xue	South China Normal Univ.
Zhiqiang Yan	Beijing Information Science and Technology Univ.	Zihao Zhu	South China Normal Univ.
Chunyu Li	Beijing Institute of Technology	Shangqiu Shan	Space Engineering Univ.
Ziyang Meng	Tsinghua Univ.	Brian C.W. Kei	The Hong Kong Polytechnic Univ.
16:17-16:25	D2.5	17:05-17:13	D2.11
1261 Closed-form quaternion estimation for GNSS/accelerometer/magnetometer attitude determination with analytical covariance		1504 SSI-PR: A selective structure injection framework for robust multi-modal place recognition	
Yang Liu	The Hong Kong Univ. of Science and Technology	Zhiqiang Yang	Zhejiang Univ. of Technology
Fulong Ma	The Hong Kong Univ. of Science and Technology	Jintao Cheng	Hong Kong Univ. of Science and Technology
Yang Yu	The Hong Kong Univ. of Science and Technology	Jiehao Luo	South China Normal Univ.
16:25-16:33	D2.6	17:13-17:21	D2.12
1274 Experimental validation of analytical multi-sensor attitude estimation for fixed-wing MAVs		1678 Lift-off spoofing detection for GNSS/5G/INS tightly-coupled systems	
Yang Liu	The Hong Kong Univ. of Science and Technology	Zihao Li	Beihang Univ.
Fulong Ma	The Hong Kong Univ. of Science and Technology	Yanhong Kou	Beihang Univ.
Yang Yu	The Hong Kong Univ. of Science and Technology	17:21-17:29	D2.13
16:33-16:41	D2.7	760 A learning-based visual-inertial SLAM framework with dense bundle adjustment	
1342 Research on performance evaluation methods of multi-regional high-density and high-revisit dynamic target tracking and observation system		Weiyan Zhao	Beijing Institute of Technology
Rong Ma	China Academy of Space Technology	Jun Zhu	Tsinghua Univ.
Qingrui Zhou	China Academy of Space Technology	Jiawei Zhao	Xi'an Research Institute of Hi-tech
Luojia Hu	China Academy of Space Technology	Tao Xue	Tsinghua Univ.
Jingdong Diao	China Academy of Space Technology	Tao Zhang	Tsinghua Univ.
		17:29-17:37	D2.14
		1408 高精度位移传感电路标定用电容器	
		Guyl Xu	Tsinghua Univ.
		Yuchi Meng	Tsinghua Univ.
		Xiaoxia He	Tsinghua Univ.
		Zewen Wan	Beijing Jiaotong Univ.
		Ziao Zhang	Beijing Jiaotong Univ.
		Shuotian Shi	Beijing Jiaotong Univ.
		Ze Liu	Beijing Jiaotong Univ.
		17:37-17:45	D2.15

1616 Adaptive nonlinear guidance law for high speed vehicles following planned waypoints

Jiayi Yuan Fudan Univ.
Jianliang Ai Fudan Univ.

D3 2nd Floor Lipu Room
Aerospace GNC 2层 荔浦厅

Chairs: Enjiao Zhao
15:45-15:53 D3.1

435 基于双站立体几何与 SRCKF 的地月空间非合作目标短弧初轨确定方法研究

Yichen Yang Nanjing Univ. of Aeronautics and
Astronautics
Youtao Gao Nanjing Univ. of Aeronautics and
Astronautics

15:53-16:01 D3.2

1106 Propellant-based center-of-mass trimming strategy for hybrid orbit transfer: minimizing coupled disturbances under engineering constraints

Tianyao Zhang China Academy of Space Technology
Qingjun Zhang China Academy of Space Technology
Jie Liu China Academy of Space Technology
Liangbo Zhao China Academy of Space Technology
Pengfei Xiao China Academy of Space Technology
Yuanqing Zhao China Academy of Space Technology
Chongzhou Yu China Academy of Space Technology
Ruiqi Sun China Academy of Space Technology
Xiaorui Li China Academy of Space Technology
Hong Wang Beijing Institute of Control Engineering
Jin Xiao Beihang Univ.

16:01-16:09 D3.3

750 Incremental composition of local CBFs for safe spacecraft navigation in unknown environments

Xian Li Shanghai Univ.
Zhenning Zhang Shanghai Univ.
Wenbo Li Beijing Institute of Control
Engineering
Liang Xu Shanghai Univ.

16:09-16:17 D3.4

883 An improved YOLOv11-based small target detection algorithm for UAV forest fire detection

Siyu Wang Xi'an Univ. of Technology
Lingxia Mu Xi'an Univ. of Technology
Youmin Zhang Concordia Univ.
Nan Feng Univ. of Science and Technology
Beijing

Xianghong Xue Xi'an Univ. of Technology
16:17-16:25 D3.5

1380 面向区域观测任务的多飞行器协同规划强化学习方法

Haowen Tian Beihang Univ.
Hao Liu Beihang Univ.
Yuheng Sun Beihang Univ.
Wenbing Chen AVIC Chengdu Aircraft Design and
Research Institute

16:25-16:33 D3.6

250 Research on path planning for unmanned surface vehicles in narrow waterways based on improved PPO algorithm

Xinhao Bao Harbin Engineering Univ.

Enjiao Zhao Harbin Engineering Univ.

Yaping Du No.703 Research Institute of CSSC

Xu Su No.703 Research Institute of CSSC

16:33-16:41 D3.7

252 An extended NMPC framework with exponential barrier and terminal safety shielding for UUV obstacle avoidance

Feifan Feng Harbin Engineering Univ.
Enjiao Zhao Harbin Engineering Univ.
Yerui Wang Harbin Engineering Univ.
Xu Su No.703 Research Institute of CSSC

16:41-16:49 D3.8

310 The environmental safety risk assessment method considering weight optimization for ocean passenger ships

Shibo Yin CSSC Marine Technology Co., Ltd
Qiming Zhang CSSC Marine Technology Co., Ltd
Jun Shi CSSC Marine Technology Co., Ltd

16:49-16:57 D3.9

546 Voronoi skeleton-based path planning with topology switching for unmanned surface vehicles

Runtong Kou Harbin Engineering Univ.
Enjiao Zhao Harbin Engineering Univ.
Yuxin Zhao Harbin Engineering Univ.

16:57-17:05 D3.10

967 AUV path planning with cross-attention and teacher-guided deep reinforcement learning

Lupan Zhang Harbin Engineering Univ.
17:05-17:13 D3.11

596 Access path planning for target survey-line access of a survey vessel under ocean current effects

Yifan Fu Harbin Engineering Univ.
Enjiao Zhao Harbin Engineering Univ.
Yerui Wang Harbin Engineering Univ.
17:13-17:21 D3.12

1264 Adaptive LQ control for the vertical-plane motion of a variable-buoyancy underwater vehicle

Pengfei Cai Nanjing Univ. of Aeronautics and
Astronautics
Liyen Wen NanJing Univ. of Aeronautics and
Astronautics

Bin Jiang Nanjing Univ. of Aeronautics and
Astronautics.

Yajie Ma Nanjing Univ. of Aeronautics and
Astronautics.

17:21-17:29 D3.13

430 Robust formation tracking control of AUVs subject to lumped disturbances via distributed sliding mode tube-based MPC

HuangZhi Yu National Univ. of Defense Technology
Bo Wang National Univ. of Defense Technology
Yifeng Niu National Univ. of Defense Technology

17:29-17:37 D3.14

1579 Variance-aware fusion guidance with motion prediction for maneuvering target interception

Hao Wu Harbin Institute of Technology
XiaoJun Ban Harbin Institute of Technology
Di Zhou Harbin Institute of Technology

17:37-17:45 D3.15

937 Cooperative localization and cooperative guidance based on

leader-follower framework with intermittent measurements

Yunji Jiang	Beijing Institute of Technology
Junhui Liu	Beijing institute of technology
Shen Kang	Beijing Galactic Energy Space Technology Co., Ltd.
jiayuan shan	Beijing Institute of Technology
Yankai Wang	Beijing institute of technology

D4 2nd Floor Nanning Room1
Cooperative GNC 2层 南宁厅 1

Chairs: Guofei Li	
15:45-15:53	D4.1

1291 多飞行器多目标动态分配协同制导方法

Yanan Chang	Northwestern Polytechnical Univ.
Qingpu Tang	Northwestern Polytechnical Univ.
Jiyu Xia	Beijing Institute of Electronic Engineering
Guofei Li	Northwestern Polytechnical Univ.

15:53-16:01	D4.2
-------------	------

1162 基于改进量子粒子群算法的中继卫星任务调度

Chuchu Han	Nanjing Univ. of Aeronautics and Astronautics
Yajie Ma	Nanjing Univ. of Aeronautics and Astronautics
Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics
Wenxuan Wang	Nanjing Univ. of Aeronautics and Astronautics

16:01-16:09	D4.3
-------------	------

1295 Distributed cooperative task allocation for heterogeneous UAV swarms under complex constraints: An OCF game approach

Haofan Wang	Nanjing Univ. of Aeronautics and Astronautics
Yajie Ma	Nanjing Univ. of Aeronautics and Astronautics.
Bin Jiang	Nanjing Univ. of Aeronautics and Astronautics.
Hang Yu	Nanjing Univ. of Aeronautics and Astronautics.

16:09-16:17	D4.4
-------------	------

814 DMPC based on koopman operator for multi-UGV collision avoidance

Chenhao Shao	Sichuan Univ.
Bin Li	Sichuan Univ.

16:17-16:25	D4.5
-------------	------

522 Uncertainty-aware distributed formation control for multi-UAV systems via robust control barrier functions and visual estimation

Zhaobang Li	National Univ. of Defense Technology
Ruixiang He	National Univ. of Defense Technology
Yang Li	National Univ. of Defence Technology
Yike Xiao	National Univ. of Defense Technology

16:25-16:33	D4.6
-------------	------

702 A real-time obstacle avoidance system for synergistic drone swarm in dense environments

Hao Zhang	Beijing Institute of Technology
Zihao Wei	Beijing Institute of Technology

Hang Xiao	Beijing Institute of Technology
Kai Shen	Beijing Institute of Technology
Xuan Xiao	Beijing Institute of Technology

16:33-16:41	D4.7
-------------	------

471 A pigeon-inspired optimization method for UAV formation transformation based on reinforcement learning algorithm

Xiaoxuan Gao	Beihang Univ.
Yongqiong Yuan	China Electronics Technology Group Corporation

Yang Yuan	Beihang Univ.
Haibin Duan	Beihang Univ.

16:41-16:49	D4.8
-------------	------

1062 An MPSP-based fixed-wing UAV formation assembly guidance method

Huitao Yang	Beijing Institute of Technology
Qiuqiu Wen	Beijing Institute of Technology

16:49-16:57	D4.9
-------------	------

1312 Robust control for quadrotor UAV precise formation based on virtual control network and ADRC

Jie Li	Beijing Institute of Technology
Yuanqing Xia	Beijing Institute of Technology

16:57-17:05	D4.10
-------------	-------

1404 Distributed linear time-varying formation maneuvering for networked UAV systems with input saturation

Yulin Kang	Univ. of Electronic Science and Technology of China
Jinghan Fu	Univ. of Electronic Science and Technology of China
Mengji Shi	Univ. of Electronic Science and Technology of China
Weihao Li	Univ. of Electronic Science and Technology of China
Yu Wu	Univ. of Electronic Science and Technology of China
Kaiyu Qin	Univ. of Electronic Science and Technology of China

17:05-17:13	D4.11
-------------	-------

242 Online affine formation parameter planning for robot swarms in underground tunnel environments

XiaoSheng Sun	Nanjing Univ. of Aeronautics and Astronautics
Kenan Yong	Nanjing Univ. of Aeronautics and Astronautics
Mou Chen	Nanjing Univ. of Aeronautics and Astronautics
Shuyi Shao	Nanjing Univ. of Aeronautics and Astronautics

17:13-17:21	D4.12
-------------	-------

554 LLM-guided multi-robots formation navigation with predictive safety filtering via sampling-based optimization

Boxiang Li	Beihang Univ.
Yuwei Zhang	Beihang Univ.
Xingjian Wang	Beihang Univ.
Shaoping Wang	Beihang Univ.
Gavrilov Alexander I.	Bauman Moscow State Technical Univ.
Xi Wang	Suzhou Tiantong Weishi Electronic

Technology Co., Ltd.		Renyuan Zhang	Northwestern Polytechnical Univ.
17:21-17:29	D4.13	16:09-16:17	D5.4
774 Analysis of key constraints for automatic formation control in large-scale aerial delivery scenarios		1456 DE-planner: an efficient end-to-end dynamic framework for UAV navigation	
Song Wang	AVIC Beijing Keeven Aviation Instrument Co.Ltd.	Jiawei Yao	Shenyang Univ. of Technology
Jiawei Xu	AVIC Beijing Keeven Aviation Instrument Co.Ltd.	Ting Wang	Shenyang Institute of Automation
Mengfan Liu	AVIC Beijing Keeven Aviation Instrument Co.Ltd.	Fengkui Cao	Shenyang Institute of Automation
Yang Liu	AVIC Beijing Keeven Aviation Instrument Co.Ltd.	Yanpeng Jia	Shenyang Institute of Automation
		Xianyuan Zhu	Shenyang Univ. of Chemical Technology
17:29-17:37	D4.14	16:17-16:25	D5.5
1535 Reform practice of graduate experimental course in detection technology aimed at cultivating research literacy		1493 An energy-aware multi-agent solution for coverage in complex irregular regions	
Gang Wang	Beijing Univ. of Posts and Telecommunications	Mingyue Tu	Southeast Univ.
Haixia Zhang	Beijing Univ. of Posts and Telecommunications	He Wang	Southeast Univ.
		Wenwu Yu	Southeast Univ.
17:37-17:45	D4.15	16:25-16:33	D5.6
579 Low-altitude route network planning methods: a comprehensive survey		1221 Design and implementation of integrated digital-physical visual flight test platform for unmanned aerial vehicles	
Duo Qi	Air Force Engineering Univ.	Yuze Zhou	Beijing Institute of Technology
Beipo Su	Air Force Engineering Univ.	Junzhi Li	Beijing Institute of Technology
Jiangbin Dai	Air Force Engineering Univ.	Yang Song	Beijing Institute of Technology
Xiaoyue Ren	Air Force Engineering Univ.	Jingliang Sun	Beijing Institute of Technology
Xingyu He	Air Force Engineering Univ.	Teng Long	Beijing Institute of Technology
D5	2nd Floor Nanning Room2	16:33-16:41	D5.7
Smart GNC	2 层 南宁厅 2	909 Continuous dual-ball throwing and catching via reinforcement learning with fine-grained rewards	
Chairs: Wenwu Zhu		Jieqian Sun	Tsinghua Univ.
15:45-15:53	D5.1	Fengbo Lan	Tsinghua Univ.
1066 Multi-agent large language models for connectivity restoration in damaged graphs		Hengxuan Xu	Tsinghua Univ.
Ruilin Wang	Univ. of Chinese Academy of Science	Ziye Zhang	Tsinghua Univ.
Xiaolin Ai	Univ. of Chinese Academy of Science	Tao Xue	Tsinghua Univ.
Yang Xu	Beihang Univ.	Tao Zhang	Tsinghua Univ.
15:53-16:01	D5.2	16:41-16:49	D5.8
1731 Research on a hybrid autonomous decision-making method for UAVs based on behavior trees		999 Meta-reinforcement learning with unified rewards for versatile multi-tool mobile manipulation	
Chunfeng Luo	AVIC Chengdu Aircraft Design and Research Institute	Fengbo Lan	Tsinghua Univ.
TianCai Wan	AVIC Chengdu Aircraft Design and Research Institute	Ziye Zhang	Tsinghua Univ.
Hui Li	AVIC Chengdu Aircraft Design and Research Institute	Hengxuan Xu	Tsinghua Univ.
Longbin Tan	PLA	Jieqian Sun	Tsinghua Univ.
Tao Wang	AVIC Chengdu Aircraft Design and Research Institute	Tao Xue	Tsinghua Univ.
Ke Shi	AVIC Chengdu Aircraft Design and Research Institute	Tao Zhang	Tsinghua Univ.
16:01-16:09	D5.3	16:49-16:57	D5.9
997 OSM-based robot path planning with global right-side correction and local efficient optimization		241 Safety-constrained path planning for UAV inspection in a substation-related transmission tower scenario	
Chenxi Shao	Northwestern Polytechnical Univ.	Qinan Zhang	Univ. of Science and Technology of China
Yu Fang	Northwestern Polytechnical Univ.	Hongbing Luo	Univ. of Science and Technology of China
Anmin Huang	Northwestern Polytechnical Univ.	Wen Wang	State Grid Anhui Electric Power Co., Ltd.
Junhua Gou	Northwestern Polytechnical Univ.	Wenjun Lv	Univ. of Science and Technology of China
		Jian Di	Univ. of Science and Technology of China
		Yu Kang	Univ. of Science and Technology of China
		16:57-17:05	D5.10

953 LSTM-MPC: physically feasible and interpretable trajectory prediction

Jinwei Liu	Univ. of Science and Technology of China
Pengfei Li	Univ. of Science and Technology of China
Qianqian Zhang	Anhui Univ.
Yunbo Zhao	Univ. of Science and Technology of China
Yu Kang	Univ. of Science and Technology of China

17:05-17:13 D5.11

391 Task planning and decision-making for domestic service robots via the fusion method of linear temporal logic and reinforcement learning

Hailong Xu	Hefei Univ. of Technology
Yongzheng Cong	Hefei Univ. of Technology
Haibo Du	Hefei Univ. of Technology
Lanlin Yu	Hefei Univ. of Technology
Wenwu Zhu	Hefei Univ. of Technology

17:13-17:21 D5.12

549 Constrained iterative LQR trajectory planning based on homotopy class constraints and higher-order dynamic optimization

Junquan Hong	Hefei Univ. of Technology
Haibo Du	Hefei Univ. of Technology
Lanlin Yu	Hefei Univ. of Technology
Wenwu Zhu	Hefei Univ. of Technology
Xunhong Sun	Hefei Univ. of Technology

17:21-17:29 D5.13

551 Dynamic-guided rolling horizon conflict resolution for multi-agent path finding in directed warehouse topologies

Haoran Zhang	Hefei Univ. of Technology
Haibo Du	Hefei Univ. of Technology
Xunhong Sun	Hefei Univ. of Technology
xiaochuan li	Hefei Univ. of Technology
Wenwu Zhu	Hefei Univ. of Technology
Lanlin Yu	Hefei Univ. of Technology

17:29-17:37 D5.14

452 Research on simplified algorithm of UAS geofence based on security detection

Shidai Qiu	Air Force Engineering Univ.
Qixi Fu	Air Force Engineering Univ.
Duo Qi	Air Force Engineering Univ.
Yajun Zhang	Unit 93685 of PLA

17:37-17:45 D5.15

1199 Multi-objective 3D UAV path planning method with robust threat evaluation and risk-adaptive parameter regulation

Chenyang Sun	Air Force Engineering Univ.
Xingyu He	Air Force Engineering Univ.
Duo Qi	Air Force Engineering Univ.
Xiaoyue Ren	Air Force Engineering Univ.

D6 2nd Floor Nanning Room3

Unmanned GNC 2层 南宁厅 3

Chairs: Xiaoxuan Gao

15:45-15:53 D6.1

1152 Aerial target reconnaissance and localization algorithm

based on twin rendering matching

Weitong Liu	AVIC Xi'an Flight Automatic Control Research Institute
Shaolong Song	AVIC Xi'an Flight Automatic Control Research Institute
YunLong Fan	AVIC Xi'an Flight Automatic Control Research Institute
Bowei Wang	AVIC Xi'an Flight Automatic Control Research Institute
Xiaole Xu	AVIC Xi'an Flight Automatic Control Research Institute
Xiwen Yao	Northwestern Polytechnical Univ.

15:53-16:01 D6.2

615 A vision-based guidance algorithm for UAV ground taxiing

Keyan Hu	Northwestern Polytechnical Univ.
Jing Ni	Aviation industry Chengdu aircraft design institute
Wanhua Xue	Northwestern Polytechnical Univ.
Boyang Gao	Northwestern Polytechnical Univ.
Xiaoxiong Liu	Northwestern Polytechnical Univ.

16:01-16:09 D6.3

413 CBF-based tube model predictive control for formation and obstacle avoidance of fixed-wing UAV swarms in a virtual tube

Janman Guo	Tiangong Univ.
Liya Li	Harbin Engineering Univ.
Hengbo Ren	Eastcompeace Technology Co., Ltd.
Shuangshi Zhao	Tianjin Keyvia Electric Co., Ltd

16:09-16:17 D6.4

847 Research on urban air-ground collaborative unmanned delivery algorithms based on multi-objective optimization

Changyin Dong	Northwestern Polytechnical Univ.
Wentao He	Northwestern Polytechnical Univ.

16:17-16:25 D6.5

866 Multi-node random search with adaptive pheromone for 3D cooperative target search of multi-UAV systems

Peng Xiao	Northwestern Polytechnical Univ.
Yu Pan	Northwestern Polytechnical Univ.
Yanling Wang	Northwestern Polytechnical Univ.
Changyin Dong	Northwestern Polytechnical Univ.

16:25-16:33 D6.6

874 Feasible-corridor-based offline planning for tethered multi-UAV payload transportation

Yu Pan	Northwestern Polytechnical Univ.
Li Ni	Northwestern Polytechnical Univ.
Peng Xiao	Northwestern Polytechnical Univ.
Fengcheng An	Northwestern Polytechnical Univ.
Baokun Sun	Northwestern Polytechnical Univ.

16:33-16:41 D6.7

956 PINN-driven energy-aware 3D trajectory optimization for quadrotor UAVs

Weijia Luo	Northwestern Polytechnical Univ.
Changyin Dong	Northwestern Polytechnical Univ.
KangXi Shi	Northwestern Polytechnical Univ.
Yu Pan	Northwestern Polytechnical Univ.
Yanling Wang	Northwestern Polytechnical Univ.
Fengcheng An	Northwestern Polytechnical Univ.

16:41-16:49	D6.8
964 城市跨域协同作战指挥控制架构建模综述与框架研究	
Kunlin He	Northwestern Polytechnical Univ.
Yunshan Deng	Beijing Institute of Technology
Yu Pan	Northwestern Polytechnical Univ.
16:49-16:57	D6.9
1027 <i>A boundary regularization method for multi-UAV coverage planning</i>	
Yaning Wang	Northwestern Polytechnical Univ.
Li Ni	Northwestern Polytechnical Univ.
Peng Xiao	Northwestern Polytechnical Univ.
Fengcheng An	Northwestern Polytechnical Univ.
WeiJia Luo	Northwestern Polytechnical Univ.
16:57-17:05	D6.10
1040 <i>CSAP: A spatially-aware and speed-adaptive trajectory planning framework for autonomous UAV</i>	
Fengcheng An	Northwestern Polytechnical Univ.
Li Ni	Northwestern Polytechnical Univ.
BenBo Zhu	Northwestern Polytechnical Univ.
Yaning Wang	Northwestern Polytechnical Univ.
Yu Pan	Northwestern Polytechnical Univ.
Peng Xiao	Northwestern Polytechnical Univ.
WeiJia Luo	Northwestern Polytechnical Univ.
17:05-17:13	D6.11
1043 <i>Cooperative guidance with impact angle and time constraints for multiple UAVs</i>	
Jiashuo Liang	Northwestern Polytechnical Univ.
Jianghang Ge	Northwestern Polytechnical Univ.
Ban Wang	Northwestern Polytechnical Univ.
17:13-17:21	D6.12
1180 <i>Dual-band passive perception for UAV navigation in dark and smoky environments</i>	
Shurui Dong	Northwestern Polytechnical Univ.
Ni Li	Northwestern Polytechnical Univ.
17:21-17:29	D6.13
1300 <i>A cognitive state-driven closed-loop adaptive decision-making framework for MUM-T systems</i>	
Kang Xi Shi	Northwestern Polytechnical Univ.
Yunshan Deng	Beijing Institute of Technology
WeiJia Luo	Northwestern Polytechnical Univ.
17:29-17:37	D6.14
1414 面向对地观测的平流层飞艇集群部署研究	
Minyu Liu	National Univ. of Defense Technology
Xiaolong Deng	National Univ. of Defense Technology
Zhenyu Ma	National Univ. of Defense Technology
Xixiang Yang	National Univ. of Defense Technology
17:37-17:45	D6.15
1431 利用可变风场的推进受限平流层浮空器导航策略	
Yuan Long	National Univ. of Defense Technology
Xiaolong Deng	National Univ. of Defense Technology
Xixiang Yang	National Univ. of Defense Technology
Fangchao Bai	National Univ. of Defense Technology
Minyu Liu	National Univ. of Defense Technology
D7	2nd Floor Longsheng Room
Pattern GNC	2 层 龙胜厅
Chairs: Yongjun Wang	
15:45-15:53	D7.1
1527 <i>Comparative analysis and design evolution of magnetic-integrated LCL-based filters for high-frequency harmonic suppression in avionics power systems</i>	
Maged Al-Barashi	Guilin Univ. of Aerospace Technology
Yongjun Wang	Guilin Univ. of Aerospace Technology
Xinya An	Guilin Univ. of Aerospace Technology
Mohammed Alameer	Guilin Univ. of Electronic Technology
Shady Sadek	International Academy for Engineering and Media Science
15:53-16:01	D7.2
1533 <i>KGLM-HCC: Knowledge-guided lightweight modeling for noninvasive grading of hepatocellular carcinoma</i>	
Chao Ye	Guilin Univ. of Electronic Technology
Bao Feng	Guilin Univ. of Aerospace Technology
Yu Liu	Guilin Univ. of Aerospace Technology
Jin Cui	Jiangmen Central Hospital
Zhixin Luo	Jiangmen Central Hospital
Fan Lin	The First Affiliated Hospital of Shenzhen Univ., Health Science Center, ShenzhenSecond People's Hospital
Enming Cui	Jiangmen Central Hospital
16:01-16:09	D7.3
1560 <i>Cross-modal attention interaction fusion framework for multimodal representation learning</i>	
Siyun Wang	Guangxi Univ. of Science and Technology
Xisheng Dai	Guangxi Univ. of Science and Technology
Jin Cui	Jiangmen Central Hospital
Bao Feng	Guilin Univ. of Aerospace Technology
Enming Cui	Jiangmen Central Hospital
16:09-16:17	D7.4
1564 <i>Advancements in experimental paradigms for EEG-based intelligent emotion perception: A review</i>	
Jin Feng	Guilin Normal College
Jing He	Guilin Univ. of Aerospace Technology
Junwei Huang	Guilin Normal College
Yunde Li	Guilin Univ. of Aerospace Technology
Chengliang Jiang	Guilin Univ. of Aerospace Technology
Bao Feng	Guilin Univ. of Aerospace Technology
16:17-16:25	D7.5
1648 <i>Ce-doped Sr0.5Ba0.5Fe12O19 hexaferrites with tailored electromagnetic parameters for broadband microwave absorption</i>	
Shunkang Pan	Guilin Univ. of Aerospace Technology
Xing Liu	Hezhou Univ.
Lichun Cheng	Guilin Univ. of Electronic Technology
Shanlin Sun	Guilin Univ. of Aerospace Technology
16:25-16:33	D7.6
1718 <i>Bidirectional mutual-guided fusion of CT-pathology multi-source information for prognosis prediction in clear cell renal cell carcinoma</i>	
Zhaole Yu	Guilin Univ. of Aerospace Technology
Changyi Ma	Jiangmen Central Hospital
Bao Feng	Guilin Univ. of Aerospace Technology

Jin Cui	Jiangmen Central Hospital	Yilin Yang	Nanjing Univ. of Aeronautics and
Shike Long	Guangxi Key Laboratory of Low-Altitude		Astronautics
	Unmanned Autonomous Systems	Zhi Xiong	Nanjing Univ. of Aeronautics and
Yan Lei	Jiangmen Central Hospital		Astronautics
Enming Cui	Jiangmen Central Hospital	17:13-17:21	D7.12
16:33-16:41	D7.7	766 <i>System-level modeling and dynamic characteristic analysis of a servo-pendulous accelerometer</i>	
354 <i>Flow field simulation and analysis of electrochemical machining of micro-holes in precision parts</i>		Lixia Fan	AVIC Beijing Keeven Aviation Instrument Co., Ltd
Tao Zhang	AVIC. Qing'An Group., Co., Ltd.	Chuanmin Qi	AVIC Beijing Keeven Aviation Instrument Co., Ltd
Kun Li	AVIC. Qing'An Group., Co., Ltd.	Shumei Han	AVIC Shenyang Aircraft Design and Research Institute
Yongpeng Wang	AVIC. Qing'An Group., Co., Ltd.	Zhenwang Yang	AVIC Beijing Keeven Aviation Instrument Co., Ltd
Yunlong Gao	AVIC. Qing'An Group., Co., Ltd.	17:21-17:29	D7.13
Dongdong Yin	AVIC. Qing'An Group., Co., Ltd.	1008 <i>Scenario-driven system evaluation: Metric organization and method validation</i>	
16:41-16:49	D7.8	Mengjin Qu	Tsinghua Univ.
1195 <i>Design and research of permanent magnet synchronous motor for high-lift systems in wide-body aircraft</i>		Xinran Chang	Tsinghua Univ.
Feng Liu	AVIC. Qing'An Group., Co., Ltd.	Long He	Tsinghua Univ.
Bo Wang	AVIC. Qing'An Group., Co., Ltd.	Yining Yao	Tsinghua Univ.
Wenjing Cui	AVIC. Qing'An Group., Co., Ltd.	Qing Li	Tsinghua Univ.
Shuwen Feng	AVIC. Qing'An Group., Co., Ltd.	17:29-17:37	D7.14
16:49-16:57	D7.9	1139 <i>Few-shot threat intelligence extraction for CPS security towards knowledge graph construction</i>	
789 <i>A guidance law design method based on line-of-sight angle nonlinear anti-saturation</i>		Zi Ye	Zhejiang Univ.
Lei Junwei	Naval Aviation Univ.	Chengcheng Zhao	Zhejiang Univ.
Heng Li	Naval Aviation Univ.	Jiahao Weng	Zhejiang Univ.
Yuliang Cheng	Naval Aviation Univ.	Yucheng Ruan	Zhejiang Univ.
Chao Dong	Naval Aviation Univ.	Peng Cheng	Zhejiang Univ.
16:57-17:05	D7.10	17:37-17:45	D7.15
886 <i>FT-transformer-based prediction of bow-wave-induced drogue aerodynamic loads</i>		351 <i>Optimization design of surface textures for a grease lubricated shaft-bushing system</i>	
Lin Xu	Nanjing Univ. of Aeronautics and Astronautics	Kun Li	AVIC. Qing'An Group .Co., Ltd.
Zikang Su	Nanjing Univ. of Aeronautics and Astronautics	Yunlong Gao	AVIC. Qing'An Group .Co., Ltd.
Jinjin Wan	AVIC Luoyang Institute of Electro-Optical Equipment	Tao Zhang	AVIC. Qing'An Group .Co., Ltd.
Chaoqiang Zhao	AVIC Luoyang Institute of Electro-Optical Equipment	Hui Zhang	Xi'an Jiaotong Univ.
ChangLin Luo	National Center (Sichuan) of Technology Innovation for Advanced Aviation Equipment Corporation	D8	2nd Floor Guilin Room 1
Xinru Wang	Nanjing Univ. of Aeronautics and Astronautics	Classic GNC	2 层 桂林厅 1
ChangHui Jiang	Nanjing Univ. of Aeronautics and Astronautics	Chairs: Zhaoyu Zhang	
17:05-17:13	D7.11	15:45-15:53	D8.1
526 <i>Solution and visualization system design of unmanned system cooperative navigation for real-time application</i>		1013 <i>Prediction-assisted observation subset selection for space-based angle-only tracking</i>	
Huiming Wang	Nanjing Univ. of Aeronautics and Astronautics	Fansen Zhou	National Univ. of Defense Technology
Ling Zhang	Nanjing Univ. of Aeronautics and Astronautics	Xin Wen	National Univ. of Defense Technology
Haoyu Zhou	Nanjing Univ. of Aeronautics and Astronautics	Wei Zheng	National Univ. of Defense Technology
Zihao Jin	Nanjing Univ. of Aeronautics and Astronautics	15:53-16:01	D8.2
		1712 <i>Test framework design for intelligent traversal fault injection, diagnosis and identification of satellites</i>	
		Zhe Wang	Beijing Institute of Control Engineering
		Jianmin Zhou	Beijing Institute of Control Engineering
		Lixin Pan	Beijing Institute of Control Engineering
		16:01-16:09	D8.3
		331 <i>Development and engineering application challenges of air-to-air refueling technology for U.S. aircraft</i>	
		Jiaju Wu	AVIC First Aircraft Design and

Ning Yu	Research Institute AVIC First Aircraft Design and Research Institute	Hang Chen	Research Institute AVIC First Aircraft Design and Research Institute
Feihong Jiang	AVIC First Aircraft Design and Research Institute	Letian Zhao	AVIC First Aircraft Design and Research Institute
Tian Zhao	AVIC First Aircraft Design and Research Institute	Shimin Liu	AVIC First Aircraft Design and Research Institute
16:09-16:17	D8.4	Hao Li	AVIC First Aircraft Design and Research Institute
332 <i>Automatic alignment of semi-physical platform design and experimental verification</i>		16:49-16:57	D8.9
Zhengbo Zhu	AVIC First Aircraft Design and Research Institute	663 <i>Research on human-computer interaction design of civil aircraft flight control system</i>	
Jiaju Wu	AVIC First Aircraft Design and Research Institute	Wenjing Liao	AVIC First Aircraft Design and Research Institute
16:17-16:25	D8.5	Xinhui Zhang	AVIC First Aircraft Design and Research Institute
396 <i>On the search algorithm for atmospheric characteristic parameters in three-dimensional point cloud domain based on hash grid</i>		16:57-17:05	D8.10
Yuxiang Zhang	AVIC First Aircraft Design and Research Institute	833 <i>Analysis of reset fault characteristics of MIL1394B bus and fault tolerance design of airborne system</i>	
Feihong Jiang	AVIC First Aircraft Design and Research Institute	Yueming Zhao	AVIC First Aircraft Design and Research Institute
Xin Zhang	AVIC First Aircraft Design and Research Institute	Hui Shen	AVIC First Aircraft Design and Research Institute
Mingjie Li	AVIC First Aircraft Design and Research Institute	Yingyi Bao	AVIC First Aircraft Design and Research Institute
16:25-16:33	D8.6	Min Zhang	AVIC First Aircraft Design and Research Institute
408 <i>A precise trajectory control method for large aircraft without air incidence angle feedback</i>		17:05-17:13	D8.11
Cihang Wu	AVIC Xi'an Flight Automatic Control Research Institute	865 <i>Path planning for UAV based on improved particle swarm optimization algorithm</i>	
Yang Meng	AVIC Xi'an Flight Automatic Control Research Institute	Linhan He	AVIC First Aircraft Design and Research Institute
Erzhuo Niu	AVIC Xi'an Flight Automatic Control Research Institute	17:13-17:21	D8.12
Yuyan Cao	AVIC Xi'an Flight Automatic Control Research Institute	934 <i>Research on the initial state of the flight control law fader</i>	
Ke Yu	AVIC Xi'an Flight Automatic Control Research Institute	Beilei Yang	AVIC First Aircraft Design and Research Institute
16:33-16:41	D8.7	Yuxiang Zhang	AVIC First Aircraft Design and Research Institute
417 <i>Contribution research on embedded air data solving algorithm based on reptile search algorithm optimized neural network</i>		17:21-17:29	D8.13
Hao Li	AVIC First Aircraft Design and Research Institute	1111 <i>Design and implementation of an integrated control system for aircraft cockpit control devices</i>	
Yinglong Wang	AVIC First Aircraft Design and Research Institute	Linya Yang	AVIC First Aircraft Design and Research Institute
Hang Chen	AVIC First Aircraft Design and Research Institute	Xiantong Chen	AVIC First Aircraft Design and Research Institute
Shimin Liu	AVIC First Aircraft Design and Research Institute	Zhenyun Shi	AVIC First Aircraft Design and Research Institute
Letian Zhao	AVIC First Aircraft Design and Research Institute	D9 2nd Floor Guilin Room 2	
16:41-16:49	D8.8	Multi-agent GNC 2层 桂林厅 2	
567 <i>Task assignment for heterogeneous UAV swarm based on an improved multi-objective grey wolf optimization algorithm</i>		Chairs: Zirui Cheng	
Yan Zhang	AVIC First Aircraft Design and	15:45-15:53	D9.1
		169 <i>Cooperative path planning and finite-time control for UAV formation with obstacle avoidance</i>	
		Shichao Ma	AVIC First Aircraft Design and Research Institute
		Wenqian Zhang	AVIC First Aircraft Design and Research Institute

Yukun Yang	AVIC First Aircraft Design and Research Institute	Shaoxin Ma	AVIC First Aircraft Design and Research Institute
Zhiyu Li	AVIC First Aircraft Design and Research Institute		
Hao Li	AVIC First Aircraft Design and Research Institute	16:17-16:25	D9.5
Hou Lin	AVIC Xi'an Flight Automatic Control Research Institute	1257 <i>Dynamic attack task replanning for multi-UAV systems based on improved contract net protocol</i>	
Qiang Tang	AVIC First Aircraft Design and Research Institute	Guangen Gao	AVIC First Aircraft Design and Research Institute
Xianglun Zhang	AVIC First Aircraft Design and Research Institute	Guoda Cheng	AVIC First Aircraft Design and Research Institute
15:53-16:01	D9.2	Heng Zhang	AVIC First Aircraft Design and Research Institute
1076 <i>Research on fixed-wing target UAVs' tracking and distance maintenance task based on improved SAC method</i>		Shaoxian Ma	AVIC First Aircraft Design and Research Institute
Jinpeng Wang	AVIC Xi'an Flight Automatic Control Research Institute	Tianyu Huang	AVIC First Aircraft Design and Research Institute
Lin Hou	AVIC Xi'an Flight Automatic Control Research Institute	Baichuan Zhang	AVIC First Aircraft Design and Research Institute
Qiang Tang	AVIC Xi'an Flight Automatic Control Research Institute	Zirui Cheng	AVIC First Aircraft Design and Research Institute
Jinzhao Zhang	AVIC Xi'an Flight Automatic Control Research Institute	16:25-16:33	D9.6
Yukun Yang	AVIC Xi'an Flight Automatic Control Research Institute	1270 <i>Research on intelligent route planning algorithm based on value iteration network</i>	
Jiayun Wen	AVIC Xi'an Flight Automatic Control Research Institute	Yanwei Du	AVIC First Aircraft Design and Research Institute
Zhiyu Li	AVIC Xi'an Flight Automatic Control Research Institute	Shaoxian Ma	AVIC First Aircraft Design and Research Institute
Ling Zuo	AVIC Xi'an Flight Automatic Control Research Institute	Heng Zhang	AVIC First Aircraft Design and Research Institute
16:01-16:09	D9.3	Mingdong Qi	AVIC First Aircraft Design and Research Institute
1148 <i>MSCA-Unet: Lightweight U-Net network for sea ice semantic segmentation</i>		Zirui Cheng	AVIC First Aircraft Design and Research Institute
YiFan Ge	AVIC First Aircraft Design and Research Institute	16:33-16:41	D9.7
Li Su	Harbin Engineering Univ.	1315 <i>Real-time simulation system for UAV swarms based on container technology</i>	
Shaolong Song	AVIC First Aircraft Design and Research Institute	Yukun Yang	AVIC First Aircraft Design and Research Institute
Bowei Wang	AVIC Xi'an Flight Automatic Control Research Institute	Yongtao Peng	AVIC First Aircraft Design and Research Institute
Xiaole Xu	AVIC Xi'an Flight Automatic Control Research Institute	Wenqian Zhang	AVIC First Aircraft Design and Research Institute
16:09-16:17	D9.4	Shichao Ma	AVIC First Aircraft Design and Research Institute
1200 <i>An accelerated branch and bound algorithm for heterogeneous UAV task allocation under the mixed constraints</i>		Zhiyu Li	AVIC First Aircraft Design and Research Institute
Baichuan Zhang	AVIC First Aircraft Design and Research Institute	Jiayun Wen	AVIC First Aircraft Design and Research Institute
Guoliang Yang	AVIC First Aircraft Design and Research Institute	Jinpeng Wang	AVIC First Aircraft Design and Research Institute
Zirui Cheng	AVIC First Aircraft Design and Research Institute	Qiang Tang	AVIC First Aircraft Design and Research Institute
Tianyu Huang	AVIC First Aircraft Design and Research Institute	Xianglun Zhang	AVIC First Aircraft Design and Research Institute
Heng Zhang	AVIC First Aircraft Design and Research Institute	16:41-16:49	D9.8
Yicong Li	AVIC First Aircraft Design and Research Institute	1330 <i>Research on key technologies of FPGA modular development architecture for radar signal acquisition system for</i>	

<i>swarm unmanned aerial vehicles</i>			Research Institute
Yike Wang	Xi'an Modern Control Technology Research Institute	Yicong Li	AVIC First Aircraft Design and Research Institute
Yu Liu	Xi'an Modern Control Technology Research Institute	Baichuan Zhang	AVIC First Aircraft Design and Research Institute
Hang Xu	Xi'an Modern Control Technology Research Institute	Heng Zhang	AVIC First Aircraft Design and Research Institute
Songkun Yan	Xi'an Modern Control Technology Research Institute	Shichao Ma	AVIC First Aircraft Design and Research Institute
Yiming Li	Xi'an Institute of Applied Optics		
16:49-16:57	D9.9	17:21-17:29	D9.13
350 <i>Research on multi-UAV cooperative 3D trajectory planning based on improved A* algorithm</i>		754 <i>Robust control method for autonomous attack guidance of six-degree-of-freedom UAV model</i>	
Yilin Xun	Xi'an Modern Control Technology Research Institute	Yicong Li	AVIC First Aircraft Design and Research Institute
Hang Xu	Xi'an Modern Control Technology Research Institute	Zhongjun Qu	AVIC First Aircraft Design and Research Institute
Yu Liu	Xi'an Modern Control Technology Research Institute	Zhe Wang	AVIC First Aircraft Design and Research Institute
Shichao Ma	AVIC First Aircraft Design and Research Institute	Baichuan Zhang	AVIC First Aircraft Design and Research Institute
16:57-17:05	D9.10	Zirui Cheng	AVIC First Aircraft Design and Research Institute
357 <i>A study on control optimization methods for clustered UAV electric sservos incorporating expert PID strategies</i>		Zhen Yang	Northwestern Polytechnical Univ.
Yunkai Ma	Xi'an Modern Control Technology Research Institute	17:29-17:37	D9.14
Ping Li	Xi'an Modern Control Technology Research Institute	970 <i>Research on reinforcement learning-based Multi-UAV cooperative target approaching strategy</i>	
Lisha Yao	Xi'an Modern Control Technology Research Institute	Hao Li	AVIC First Aircraft Design and Research Institute
TianHao Yang	Xi'an Modern Control Technology Research Institute	Yongtao Peng	AVIC First Aircraft Design and Research Institute
Wentao Feng	Xi'an Modern Control Technology Research Institute	17:37-17:45	D9.15
Rizhong Wang	Xi'an Modern Control Technology Research Institute	995 <i>Multi-UAV cooperative reconnaissance task assignment method based on CBBA algorithm</i>	
17:05-17:13	D9.11	Tianyu Huang	AVIC First Aircraft Design and Research Institute
475 <i>Adaptive interacting multiple model fusion filtering for UAV formation target tracking</i>		Liu Gao	AVIC First Aircraft Design and Research Institute
Haozhe He	Xi'an Modern Control Technology Research Institute	Zirui Cheng	AVIC First Aircraft Design and Research Institute
Kang Zhao	Xi'an Modern Control Technology Research Institute	Heng Zhang	AVIC First Aircraft Design and Research Institute
Bo Fu	Xi'an Modern Control Technology Research Institute	Baichuan Zhang	AVIC First Aircraft Design and Research Institute
Junmin Zhao	Xi'an Modern Control Technology Research Institute	Shichao Ma	AVIC First Aircraft Design and Research Institute
Zhongyun Fan	Xi'an Modern Control Technology Research Institute		
17:13-17:21	D9.12	D10 2nd Floor VIP Room 2	
520 <i>Multi-Constraint cooperative attack path planning for manned and UAV collaborative ground attack</i>		Confrontation GNC 2 层 贵宾厅 2	
Zirui Cheng	AVIC First Aircraft Design and Research Institute	Chairs: Mengyun Wang	
Mingdong Qi	AVIC First Aircraft Design and Research Institute	15:45-15:53	D10.1
Tianyu Huang	AVIC First Aircraft Design and	752 <i>Affine formation control for fixed-wing UAVs with formation maintenance and obstacle avoidance</i>	
		Tianyu Li	Northwestern Polytechnical Univ.
		Yiwei Zhang	Northwestern Polytechnical Univ.
		Jingping Shi	Northwestern Polytechnical Univ.
		Yongxi Lyu	Northwestern Polytechnical Univ.
		15:53-16:01	D10.2
		776 <i>Multi-UAV cooperative pursuit of an evader with a reach-</i>	

avoid strategy in obstacle environments

Wei Zhang	National Univ. of Defense Technology
Mengyun Wang	National Univ. of Defense Technology
Zhan Chen	National Univ. of Defense Technology
Kunzhong Miao	National Univ. of Defense Technology
Jing Fu	National Univ. of Defense Technology
Yifeng Niu	National Univ. of Defense Technology

16:01-16:09 D10.3

375 *An omnidirectional turn control law based on the gauss pseudospectral method*

Hongyu Zhao	Shanghai Electro-Mechanical Engineering Institute
Tianyu Zheng	Shanghai Electro-Mechanical Engineering Institute
Lin Qi	Shanghai Electro-Mechanical Engineering Institute
Xinpeng Xu	Shanghai Electro-Mechanical Engineering Institute
Zhijun Luo	Shanghai Academy of Spaceflight Technology

16:09-16:17 D10.4

424 *FOV-constrained cooperative coverage optimization for optimal mid-to-terminal handover point selection*

Haobo Xie	China Airborne Missile Academy
Yanke Xu	China Airborne Missile Academy
Long Wang	China Airborne Missile Academy

16:17-16:25 D10.5

473 *An image quality assessment algorithm based on perceptual tasks*

Siting Peng	Beijing Electro-Mechanical Engineering Institute
Hanyong Wang	Sichuan Univ.
Sichang Peng	Jiangnan Design Institute of Machinery and Electricity
Yuxiao Pei	Beijing Electro-Mechanical Engineering Institute
Chuang Song	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation
Jiajia Zhao	Beijing Electro-Mechanical Engineering Institute

16:25-16:33 D10.6

474 *A multi-sensor cooperative spatial configuration decision algorithm based on optimization of detection performance*

Siting Peng	Beijing Electro-Mechanical Engineering Institute
Sichang Peng	Jiangnan Design Institute of Machinery and Electricity
Hanyong Wang	Sichuan Univ.
Yuxiao Pei	Beijing Electro-Mechanical Engineering Institute
Chuang Song	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation
Jiajia Zhao	Beijing Electro-Mechanical Engineering Institute

16:33-16:41 D10.7

608 *基于模糊自适应判决与图一致性过滤的低轨目标甚短弧测角初轨关联方法*

Yicheng Zhou	Nanjing Univ. of Aeronautics and Astronautics
Hongyu Su	Nanjing Univ. of Aeronautics and Astronautics
Baichun Gong	Nanjing Univ. of Aeronautics and Astronautics

16:41-16:49 D10.8

638 *Distributed nonlinear model predictive control based UAV-USV formation control*

Yaxuan Yin	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation
Mingrui Hao	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation
Xiaoyu Zhuang	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation

16:49-16:57 D10.9

645 *强化学习的理论与发展趋势研究*

Sichan Xu	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation
Fengyi Li	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation

16:57-17:05 D10.10

940 *Trajectory optimization and intelligent guidance for ascent phase of aerospace vehicles*

Jieming Li	Dalian Univ. of Technology
Shuaibin An	Dalian Univ. of Technology
Guan Wang	Dalian Univ. of Technology
Feng Yang	Dalian Univ. of Technology
Kai Liu	Dalian Univ. of Technology

17:05-17:13 D10.11

1314 *Time-Series-Aware multi-agent reinforcement learning guidance for cooperative interception*

Siyu Li	Harbin Institute of Technology
Xinran Zhang	Harbin Institute of Technology
Yuhao Yan	Harbin Institute of Technology
Zhaochen Lin	Harbin Institute of Technology
Fenghua He	Harbin Institute of Technology

17:13-17:21 D10.12

1383 *Multi-Agent path planning for Dubins vehicles via heading-evolution-guided MAPPO*

Jiashuai Si	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation
Hancchen Lu	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation
Mingrui Hai	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation
Jin Cheng	National Key Laboratory of

Complex System Control and Intelligent Agent Cooperation		
17:21-17:29	D10.13	
1674 <i>Research progress in cooperative navigation technology: a review of architectures, fusion methods, and development trends</i>		
Jinrong Fan	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation	
Hang Zhang	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation	
Mingrui Hao	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation	
Xujun Guan	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation	
Xiaomeng Bai	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation	
Tao Li	National Key Laboratory of Complex System Control and Intelligent Agent Cooperation	
17:29-17:37	D10.14	
1083 <i>Proactive interception and capture of tumbling targets via Koopman-based DAW-MPC</i>		
Ze Yang	Shanghai Aerospace System Engineering Institute	
Guanglie Yang	Shanghai Aerospace System Engineering Institute	
Xiaokun Liu	Shanghai Aerospace System Engineering Institute	
Zongxiang Jin	Shanghai Aerospace System Engineering Institute	
17:37-17:45	D10.15	
1248 <i>Airborne gimbal control for moving target tracking: design and experiments via UDE-MPC</i>		
Qiuhan Chen	Harbin Institute of Technology	
Shiyao Li	Harbin Institute of Technology	
Rui Xing	Harbin Institute of Technology	
Bohan Wu	Harbin Institute of Technology	
Baoqing Yang	Harbin Institute of Technology	
D12	2nd Floor Aisel	
Poster Session	2 层连廊厅	
Chairs: Yichen Tao		
15:45-17:45	D12.1	
1459 <i>XGrid-mapping: Explicit-implicit hybrid grid submaps for efficient incremental neural LiDAR mapping</i>		
Zeqing Song	Shanghai Jiao Tong Univ.	
Zhongmiao Yan	Shanghai Jiao Tong Univ.	
Junyuan Deng	The Hong Kong Univ. of Science and Technology	
Songpengcheng Xia	Shanghai Jiao Tong Univ.	
Xiang Mu	Horizon Robotics Inc.	
Qi Wu	ByteDance Inc.	
Ling Pei	Shanghai Jiao Tong Univ.	
15:45-17:45	D12.2	
1574 <i>SemGeoNav: A safety-guided visual navigation approach with semantic reasoning and geometric planning</i>		
Yu Liu	National Univ. of Defense Technology	
Zongyang Chen	National Univ. of Defense Technology	
Yan Guo	National Univ. of Defense Technology	
Chao Liu	National Univ. of Defense Technology	
Xianfei Pan	National Univ. of Defense Technology	
15:45-17:45	D12.3	
386 <i>Robust visual-inertial odometry using learning-based features for embedded platforms</i>		
Yuhang Zhang	Beijing Institute of Technology	
Yuanchao Qiu	Beijing Institute of Technology	
Yan Yang	Beijing Institute of Technology	
Haikuo Liu	Beijing Institute of Technology	
Changkun Du	Intelligent Science and Technology Academy Limited, CASIC	
Zhen Li	Beijing Institute of Technology	
15:45-17:45	D12.4	
415 <i>Perception-aware trajectory and yaw optimization for UAVs in unknown weak-texture environments</i>		
Yan Yang	Beijing Institute of Technology	
Ting Zhang	Beijing Institute of Technology	
Yuanchao Qiu	Beijing Institute of Technology	
Yuhang Zhang	Beijing Institute of Technology	
Haikuo Liu	Beijing Institute of Technology	
Changkun Du	Intelligent Science and Technology Academy Limited, CASIC	
Zhen Li	Beijing Institute of Technology	
15:45-17:45	D12.5	
510 <i>Optimal slip ratio fuzzy estimation algorithm based on information-gated and multi-time-scale memory fusion</i>		
He Zheng	Beijing Institute of Technology	
Xuefei Mao	Beijing Institute of Technology	
Zhen Li	Beijing Institute of Technology	
15:45-17:45	D12.6	
286 <i>Non-singular fast terminal sliding-mode fault-tolerant attitude control for small size unmanned helicopter</i>		
Aochen Ma	Tianjin Univ.	
Bin Xian	Tianjin Univ.	
15:45-17:45	D12.7	
321 <i>Predefined-time longitudinal tracking control for morphing hypersonic aircraft under external disturbances</i>		
Yuanhang Yang	Tianjin Univ. of Technology	
Yuehui Ji	Tianjin Univ. of Technology	
Junjie Liu	Tianjin Univ. of Technology	
Xuwen Zhao	Tianjin Univ. of Technology	
Qiang Gao	Tianjin Univ. of Technology	
15:45-17:45	D12.8	
433 <i>Hierarchical reinforcement learning with adaptive self-play for multi-UCAV cooperative air combat</i>		
Haoming Dou	Tianjin Univ. of Technology	
Bingcong Zou	Tianjin Univ. of Technology	
Yuehui Ji	Tianjin Univ. of Technology	
Jiayun Ni	Tianjin Univ. of Technology	
Junjie Liu	Tianjin Univ. of Technology	
15:45-17:45	D12.9	
602 <i>Multi-UAV suspension system control based on actor-critic</i>		

<i>algorithm</i>		Tingting Bai	Army Engineering Univ. of PLA
Ruoxin Sun	Tianjin Univ. of Technology	Peng Xu	Army Engineering Univ. of PLA
Fengxiao Zhang	State Grid Tianjin Electric Power Company	15:45-17:45	D12.17
818 基于单一腕式设备的神经惯性定位方法		Shiyu Bai	The Hong Kong Polytechnic Univ.
Tian Xie	Tianjin Univ. of Technology	Jingxian Wang	Shanghai Univ.
Jigang Tong	Tianjin Univ. of Technology	15:45-17:45	D12.18
Sen Yang	Tianjin Univ. of Technology	915 基于触地区间气压修正与建筑模型约束的行人三维定位方法	
15:45-17:45	D12.10	Jiangfeng Huang	Chongqing Univ. of Posts and Telecommunications
494 Error suppression method for HRG inertial navigation system based on combined modulation of single-axis rotation and virtual rotation		Jingxian Wang	Shanghai Univ.
Yutao Wu	National Univ. of Defense Technology	Feifan Lin	The Hong Kong Polytechnic Univ.
Hongjie Meng	National Univ. of Defense Technology	Yue Yu	The Hong Kong Polytechnic Univ.
Qixin Lou	National Univ. of Defense Technology	15:45-17:45	D12.19
Huiping Li	National Univ. of Defense Technology	1391 Uncertainty-aware LiDAR traversability estimation in off-road environments	
Chao Liu	National Univ. of Defense Technology	Haoran Wang	Tianjin Univ.
Tian Lan	National Univ. of Defense Technology	Hongyue Li	Tianjin Univ.
Xudong Yu	National Univ. of Defense Technology	Rui Song	Tianjin Univ.
15:45-17:45	D12.11	15:45-17:45	D12.20
828 Robust filtering for SINS/GNSS integrated navigation using multiple fading factors and robust weighting		1673 A lightweight bilateral feature fusion module for dual-branch real-time semantic segmentation	
Jiaxi Guo	Chengdu Univ.	Zhuwei Liu	Tianjin Univ.
Li Luo	Chengdu Univ.	Mingxi Song	Tianjin Univ. of Technology
Ling Luo	Chengdu Univ.	Rui Song	Tianjin Univ.
Yidong Shen	Chengdu Univ.	15:45-17:45	D12.21
15:45-17:45	D12.12	181 救援未知环境下的多无人机协同目标搜索及任务分配方法研究	
885 Suppression of environmental disturbances and intrinsic noise in fiber-optic gyroscopes via a fused dual-coil configuration		Rui Wang	Civil Aviation Univ. of China
Zihan Gao	Central South Univ.	Lianwei Sun	Civil Aviation Univ. of China
YanJun Chen	Central South Univ.	Jiajun Lian	Civil Aviation Univ. of China
Lin Xu	Central South Univ.	Kaixin Yang	Tianjin College, Univ. of Science and Technology Beijing
Hao Jiang	Central South Univ.	Hui Sun	Civil Aviation Univ. of China
Wenbo Wang	Peking Univ.	15:45-17:45	D12.22
Zhengbin Li	Peking Univ.	552 A two-layer trajectory planning framework for UAVs combining TAD-RRT* and kinematic-constrained smoothing	
15:45-17:45	D12.13	Xin Sun	Civil Aviation Univ. of China
952 Robust extended target tracking based on Markov switching mixture		Lianxu Zhao	Civil Aviation Univ. of China
Guoqing Wang	China Univ. of Mining and Technology	Runqi Chai	Beijing Institute of Technology
Xinxin Gu	China Univ. of Mining and Technology	Senchun Chai	Beijing Institute of Technology
15:45-17:45	D12.14	15:45-17:45	D12.23
1733 The inertial/visual asynchronous fusion algorithm for UAV under GNSS-denial environments and flight verification		1335 Research on belief control methods for manned robot based on reinforcement learning	
Huiqing Sun	Harbin Engineering Univ.	Jiting Xue	Civil Aviation Univ. of China
Ziqiang Wang	Harbin Engineering Univ.	Qingji Gao	Civil Aviation Univ. of China
Zhongxing Gao	Harbin Engineering Univ.	Yuqi Zhang	Civil Aviation Univ. of China
15:45-17:45	D12.15	15:45-17:45	D12.24
209 Agile trajectory tracking of quadrotor with suspended payload via PSO-based nonlinear control		1350 A vision-guided staged autonomous docking method for wheeled robots	
Xun Gu	Guiyang Univ.	Jiayuan Hu	Civil Aviation Univ. of China
Qiang Guo	Guiyang Univ.	Qingji Gao	Civil Aviation Univ. of China
Bin Xian	Tianjin Univ.	Yingjie Zhu	Civil Aviation Univ. of China
15:45-17:45	D12.16	15:45-17:45	D12.25
530 Flight risk assessment for UAV free flight based on actual navigation performance		1374 融合感受野注意力与动态采样的 YOLOv12 多目标检测方法	
Yuting Dai	Army Engineering Univ. of PLA	Fengfa Yue	Civil Aviation Univ. of China
Jingxian Wang	Shanghai Univ.		
Bing Xu	Army Engineering Univ. of PLA		

Yuqi Zhang	Civil Aviation Univ. of China				Research Institute
Mengtian Li	Civil Aviation Univ. of China				Dalian Univ. of Technology
Qingji Gao	Civil Aviation Univ. of China				AVIC Chengdu Aircraft Design and Research Institute
15:45-17:45	D12.26				
196 <i>Model correction method based on physics-informed Kolmogorov-Arnold network for flying-wing UAV</i>					
Ming Yan	Dalian Univ. of Technology				
Heqi Li	AVIC Shenyang Aircraft Design and Research Institute				
Qingfeng Zhao	Dalian Univ. of Technology				
Kai Liu	Dalian Univ. of Technology				
15:45-17:45	D12.27				
643 <i>Nonsingular terminal sliding mode control for the descent phase of hypersonic reentry vehicles</i>					
Shuowen Lan	Dalian Univ. of Technology				
Dapeng Yang	AVIC Shenyang Aircraft Design and Research Institute				
Jianan Qin	AVIC Shenyang Aircraft Design and Research Institute				
Shuo Pan	AVIC Shenyang Aircraft Design and Research Institute				
Guan Wang	Dalian Univ. of Technology				
Yuefang Wang	Dalian Univ. of Technology				
15:45-17:45	D12.28				
708 <i>State estimation of flexible hypersonic vehicles using optimal sensor placement and Kalman filter</i>					
Cong Luo	Dalian Univ. of Technology				
Yu Zhang	AVIC Chengdu Aircraft Design and Research Institute				
Guan Wang	Dalian Univ. of Technology				
Xi Cheng	AVIC Chengdu Aircraft Design and Research Institute				
Qiang Min	AVIC Chengdu Aircraft Design and Research Institute				
15:45-17:45	D12.29				
711 <i>Data-driven robust adaptive control for flexible hypersonic vehicles</i>					
Ming Li	Dalian Univ. of Technology				
Dapeng Yang	AVIC Shenyang Aircraft Design and Research Institute				
Honglin Liu	Dalian Univ. of Technology				
Guan Wang	Dalian Univ. of Technology				
Kai Liu	Dalian Univ. of Technology				
15:45-17:45	D12.30				
930 <i>A handling qualities evaluation method for air-breathing hypersonic vehicles in the climb phase</i>					
Peinan Ren	Dalian Univ. of Technology				
Honglin Liu	Dalian Univ. of Technology				
Shuaibin An	Dalian Univ. of Technology				
Feng Yang	Dalian Univ. of Technology				
Guan Wang	Dalian Univ. of Technology				
Kai Liu	Dalian Univ. of Technology				
15:45-17:45	D12.31				
998 <i>Neural longitudinal control for flexible hypersonic vehicles with variable geometry inlet</i>					
Renke He	Dalian Univ. of Technology				
Xi Cheng	AVIC Chengdu Aircraft Design and Research Institute				
Guan Wang	Dalian Univ. of Technology				
Yu Zhang	AVIC Chengdu Aircraft Design and Research Institute				
Qiang Min	AVIC Chengdu Aircraft Design and Research Institute				
15:45-17:45	D12.32				
1231 <i>A cross-sea current compensation method for SINS/DVL integrated navigation</i>					
Zhenli Ju	Zhengzhou Univ.				
Peijia Liu	Zhengzhou Univ.				
Guanghua Li	713 Research Institute of CSSC				
Kai Wang	713 Research Institute of CSSC				
Yifan Zhang	Tianjin Zhihui Ocean Technology Co., Ltd.				
15:45-17:45	D12.33				
1033 <i>Dynamic task scheduling for spacecraft based on Q-learning and load balancing</i>					
Linhao Wang	Nanjing Univ. of Aeronautics and Astronautics				
Ziquan Yu	Nanjing Univ. of Aeronautics and Astronautics				
Youmin Zhang	Concordia Univ.				
15:45-17:45	D12.34				
1035 <i>Distributed fault-tolerant formation control of multiple fixed-wing UAVs under communication loss</i>					
Xiangyang Yuan	Nanjing Univ. of Aeronautics and Astronautics				
Ziquan Yu	Nanjing Univ. of Aeronautics and Astronautics				
Youmin Zhang	Concordia Univ.				
15:45-17:45	D12.35				
1041 <i>Fault-tolerant decision-making for target redistribution of clustered unmanned aerial vehicles under multiple constraints</i>					
Ruihan Zhu	Nanjing Univ. of Aeronautics and Astronautics				
Ziquan Yu	Nanjing Univ. of Aeronautics and Astronautics				
Youmin Zhang	Concordia Univ.				
15:45-17:45	D12.36				
1619 <i>Safe docking strategy for UAV aerial refueling with hose whipping suppression</i>					
Wenbi Zhao	Xi'an Technological Univ.				
Ying Zhao	Northwestern Polytechnical Univ.				
Ziquan Yu	Nanjing Univ. of Aeronautics and Astronautics				
Yaohong Qu	Northwestern Polytechnical Univ.				
15:45-17:45	D12.37				
188 <i>Global performance-guaranteed optimized control of quadrotor UAVs via ESO-based disturbance compensation</i>					
Zetao Cheng	Anhui Univ. of Technology				
Hao Shen	Anhui Univ. of Technology				
Zhengguo Huang	Anhui Univ. of Technology				
Ce Wang	Anhui Univ. of Technology				
Shaoyu Lv	Anhui Univ. of Technology				
Feng Li	Anhui Univ. of Technology				
15:45-17:45	D12.38				

235 <i>A model-free policy iteration algorithm for discrete-time stochastic linear quadratic optimal control problem</i>		Hailong Pei	South China Univ. of Technology
Ruining Wang	Shandong Univ. of Science and Technology	Zihuan Cheng	Guangdong Univ. of Technology
Hongji Ma	Shandong Univ. of Science and Technology	Qingxi Tang	Guangdong Univ. of Technology
Zhen Wang	Shandong Univ. of Science and Technology	15:45-17:45	D12.45
369 <i>Output feedback sliding mode-based admissibility for uncertain singular fractional-order systems and its application to circuits and systems</i>		1122 <i>An FPGA-accelerated stereo visual SLAM front-end for UAV navigation</i>	
Yunrui Zhang	Shandong Univ. of Science and Technology	Na Xing	South China Univ. of Technology
Shubin Song	Shandong Univ. of Science and Technology	Hailong Pei	South China Univ. of Technology
Feng Wang	Shandong Univ. of Science and Technology	15:45-17:45	D12.46
Bo Meng	Shandong Univ. of Science and Technology	1171 <i>Predefined time control for non-conventional aerial with input saturation</i>	
Zhen Wang	Shandong Univ. of Science and Technology	Shuo Li	Shanghai Polytechnic Univ.
15:45-17:45	D12.39	Zihuan Cheng	Guangdong Univ. of Technology
540 <i>Sliding mode security control for networked singular systems against DoS attacks</i>		15:45-17:45	D12.47
Xuetong Zhang	Liaocheng Univ.	1232 <i>6D pose estimation for UAVs using UWB range and direction-of-arrival measurements</i>	
Zihan Zhao	Liaocheng Univ.	Dongsheng Zhao	Electric Power Research Institute of Guangdong Power Grid Co., Ltd.
Zhihao Wang	Liaocheng Univ.	Huanting Ye	South China Univ. of Technology
Jingyang Yu	Liaocheng Univ.	Hailong Pei	South China Univ. of Technology
Mengke Zhou	Liaocheng Univ.	15:45-17:45	D12.48
Mengjia Li	Liaocheng Univ.	1303 <i>基于神经网络补偿的涵道无人机系统辨识</i>	
Xiaodan Du	Liaocheng Univ.	Peiye Huang	South China Univ. of Technology
Xuefei Bai	Liaocheng Univ.	Hailong Pei	South China Univ. of Technology
Guangming Zhuang	Liaocheng Univ.	Chaoheng Meng	South China Univ. of Technology
15:45-17:45	D12.41	Qiquan Cui	South China Univ. of Technology
871 <i>非周期采样下网络化控制系统零动态攻击设计与异步采样-保持检测策略</i>		15:45-17:45	D12.49
Xinru Liu	Liaocheng Univ.	1530 <i>Improvement and application of the Harmony SE modeling process for flight control systems</i>	
Jianwei Xia	Liaocheng Univ.	Zheng Zhang	Shanghai Dianji Univ.
15:45-17:45	D12.42	Liang Zhu	Shanghai Dianji Univ.
1047 <i>Distributed stochastic event-triggered optimal coordination for uncertain nonlinear multi-agent systems with coupling constraints</i>		Xichao Wang	Shanghai Dianji Univ.
Huarong Yue	Liaocheng Univ.	Jie Fang	Shanghai Maritime Univ.
Jianwei Xia	Liaocheng Univ.	Xiaobin Hao	Shanghai Dianji Univ.
15:45-17:45	D12.43	15:45-17:45	D12.50
1251 <i>Adaptive anti-vibration boundary control for a moving helicopter flexible slung-load system with intermittent actuator faults</i>		451 <i>A robust end-to-end navigation method for autonomous vehicles based on Vision Transformer</i>	
Yihua Gao	Henan Univ. of Science and Technology	Zheng Yang	The Hong Kong Univ. of Science and Technology (Guangzhou)
Danjing Zheng	Henan Univ. of Science and Technology	Kefan Jin	Shanghai Jiao Tong Univ.
Shuai Song	Henan Univ. of Science and Technology	Haoang Li	The Hong Kong Univ. of Science and Technology (Guangzhou)
Xiaona Song	Henan Univ. of Science and Technology	Zhe Liu	Shanghai Jiao Tong Univ.
15:45-17:45	D12.44	15:45-17:45	D12.51
1091 <i>Full-mode flight control framework for a ducted-fan tail-sitter UAV</i>		1273 <i>SeqAssign: Batch task chaining in shuttle-based multi-robot systems via sequence-constrained assignment</i>	
Chaoheng Meng	South China Univ. of Technology	Jieshi Xu	Shanghai Jiao Tong Univ.
		Jinbao Xu	Anhui Heli Co., Ltd.
		Xingyao Han	Shanghai Jiao Tong Univ.
		Zhe Liu	Shanghai Jiao Tong Univ.
		15:45-17:45	D12.52
		1277 <i>Risk-constrained heterogeneous multi-agent reinforcement learning for electronic warfare collaborative coverage</i>	
		Yunlei Wang	Shanghai Jiao Tong Univ.
		Jinxuan Shi	Shanghai Jiao Tong Univ.
		Fei Wang	Southwest China Research Institute of Electronic Equipment

Liang Li	Southwest China Research Institute of Electronic Equipment	1547 <i>Multi-loop robust control for single-axis satellite attitude with moment of inertia parameter variations</i>	Li Zhang	National Univ. of Defense Technology
Qian Su	Southwest China Research Institute of Electronic Equipment		15:45-17:45	D12.61
Zhe Liu	Shanghai Jiao Tong Univ.	96 基于容错卡尔曼滤波的无人机相对定位方法	He Song	Xi'an Aeronautical Univ.
15:45-17:45	D12.53		Youjian Zhang	Xi'an Technological Univ.
1577 <i>FedDETR: A federated object detection framework for infrastructure-assisted indoor robots</i>			Rui Zhang	China Flight Test Establishment
Weizhao Qian	Dalian Jiaotong Univ.		Chaobo Chen	Xi'an Technological Univ.
Xuesong Zhang	Dalian Jiaotong Univ.		Hao Fan	Xi'an Technological Univ.
15:45-17:45	D12.54		Zhong Li	Xi'an Aeronautical Univ.
1618 <i>Attention-enhanced hierarchical reinforcement learning for evasion decision-making under adversarial maritime tracking</i>			Zhi Wang	AVIC Xi'an Flight Automatic Control Research Institute
Changjun Hu	Shanghai Marine Electronic Equipment Research Institute		15:45-17:45	D12.62
Chang Zhou	Shanghai Marine Electronic Equipment Research Institute	1575 基于改进 SOM 的多无人机协同目标分配路径规划	Jiaoru Huang	Xi'an Technological Univ.
Anqi Guo	Shanghai Jiao Tong Univ.		YanJun Zhou	Xi'an Technological Univ.
Yunlei Wang	Shanghai Jiao Tong Univ.		Chaobo Chen	Xi'an Technological Univ.
Zhe Liu	Shanghai Jiao Tong Univ.		Yushuang Liu	Beijing System Design Institute of Electro-mechanic Engineering
15:45-17:45	D12.55		15:45-17:45	D12.63
706 <i>Robust tube control for strict repeat ground track maintenance of low-Earth-orbit satellites under execution uncertainty</i>			877 面向 PAPI 灯校验的绳驱系留无人机自抗扰控制方法	
Jiawei Wang	Sun Yat-sen Univ.		Yapeng Wang	Civil Aviation Univ. of China
Bingqi Li	Sun Yat-sen Univ.		Xuqiao Wang	Civil Aviation Univ. of China
Xianqiang Luo	Sun Yat-sen Univ.		15:45-17:45	D12.64
Jihe Wang	Sun Yat-sen Univ.		1198 基于偏差约束位姿锚定的航拍图像快速拼接算法	
15:45-17:45	D12.56		Qijun Luo	Civil Aviation Univ. of China
800 <i>Constellation multi-objective optimal design method based on target grouping and mixed RGT orbit types</i>			Jiaqi Shao	Civil Aviation Univ. of China
Dan Li	Sun Yat-sen Univ.		Yipei Wang	Civil Aviation Univ. of China
Tianjie Liu	Sun Yat-sen Univ.		Ziyi Zhou	Civil Aviation Univ. of China
Chenglong Xu	Sun Yat-sen Univ.		15:45-17:45	D12.65
Jihe Wang	Sun Yat-sen Univ.		1341 <i>LSE-YOLOv11: Navigation light pollutant identification based on an enhanced YOLOv11 approach</i>	
15:45-17:45	D12.57		Dandan Hu	Civil Aviation Univ. of China
1126 <i>Fencing control of heterogeneous Euler-Lagrange swarms with application to satellite formation</i>			Zhitao Ouyang	Civil Aviation Univ. of China
Zengning Lai	Sun Yat-sen Univ.		Guochen Niu	Civil Aviation Univ. of China
Cheng Liu	Sun Yat-sen Univ.		15:45-17:45	D12.66
Peipei Jin	Sun Yat-sen Univ.		1344 <i>RBC-DETR: An enhanced real-time detector for small object detection in airfield areas</i>	
Fan Zhang	Sun Yat-sen Univ.		Guochen Niu	Civil Aviation Univ. of China
15:45-17:45	D12.58		Hui Xu	Civil Aviation Univ. of China
1337 <i>Neural network disturbance observation for spacecraft pursuit-evasion relative motion estimation</i>			Xiangyu Sun	Shandong Airport Management Group Yantai International Airport Co.,Ltd
Liwei Hao	National Univ. of Defense Technology		15:45-17:45	D12.67
Caizhi Fan	National Univ. of Defense Technology	1346 <i>An algorithm for detecting crowds in airport terminals based on an improved YOLOv11n model</i>	Dandan Hu	Civil Aviation Univ. of China
Li Zhang	National Univ. of Defense Technology		Wenshuo Ding	Civil Aviation Univ. of China
15:45-17:45	D12.59		Guochen Niu	Civil Aviation Univ. of China
1364 <i>Model predictive control for approach of tumbling non-cooperative targets under multiple constraints</i>			15:45-17:45	D12.68
Pengxi Fan	National Univ. of Defense Technology		1471 <i>Whirl flutter analysis in different flight modes of tiltrotor aircraft</i>	
Liwei Hao	National Univ. of Defense Technology		Mingchun Wang	Guangdong Univ. of Technology
Caizhi Fan	National Univ. of Defense Technology		Ruilan Chang	Guilin Univ. of Aerospace Technology
Zikai Zhong	National Univ. of Defense Technology		Yongjun Wang	Guilin Univ. of Aerospace Technology
Xinchen Li	National Univ. of Defense Technology		15:45-17:45	D12.69
15:45-17:45	D12.60			

1167 Adaptive sliding mode control for pitch angle of solar-powered UAV		Xuan Xiao	Beijing Institute of Technology
Junwei Lei	Naval Aviation Univ.	15:45-17:45	D12.77
Heng Li	Naval Aviation Univ.	773 A dynamic task allocation method of UAV swarms based on semantic-driven control of LLMs	
Yuliang Cheng	Naval Aviation Univ.	Zihao Wei	Beijing Institute of Technology
Lingling Wang	Naval Aviation Univ.	Hao Zhang	Beijing Institute of Technology
15:45-17:45	D12.70	Yiheng Yang	Beijing Institute of Technology
1168 A fuzzy variable structure-based method for rapid overload command tracking of supersonic aircraft		Kai Shen	Beijing Institute of Technology
Junwei Lei	Naval Aviation Univ.	Xuan Xiao	Beijing Institute of Technology
Heng Li	Naval Aviation Univ.	15:45-17:45	D12.78
Lingling Wang	Naval Aviation Univ.	950 Ballistics-knowledge guided optical array measurement for high-spinning flight vehicle tests	
Yuliang Cheng	Naval Aviation Univ.	Jiatong Wu	Beijing Institute of Technology
15:45-17:45	D12.71	Haocheng Peng	Beijing Institute of Technology
1218 Multi-UAV cooperative target encirclement based on extrinsic-intrinsic reward MADDPG reinforcement learning		Meng Zhang	Beijing Institute of Technology
Qiwen Wang	Naval Aviation Univ.	Zhihong Deng	Beijing Institute of Technology
Zhikai Xiao	Naval Aviation Univ.	Kai Shen	Beijing Institute of Technology
Bei Qian	Naval Aviation Univ.	15:45-17:45	D12.79
Defeng Sun	Naval Aviation Univ.	1001 A synergetic consensus framework for tracking and terminal guidance of swarm drones	
15:45-17:45	D12.72	Zheng Xu	Beijing Institute of Technology
1396 多无人机协同在线航迹规划		Hang Xiao	Beijing Institute of Technology
Gaoyang Yi	Naval Aviation Univ.	Hao Zhang	Beijing Institute of Technology
Zhikai Xiao	Naval Aviation Univ.	Kai Shen	Beijing Institute of Technology
Luyu Liu	Naval Aviation Univ.	15:45-17:45	D12.80
15:45-17:45	D12.73	1009 A robust multi-sensor data fusion algorithm for high-spinning flight vehicles	
1407 Fuzzy-based dynamic event-triggered formation control of manned-unmanned aerial team with prescribed-time		Mengzhuo Xu	Beijing Institute of Technology
Ning Wang	Naval Aviation Univ.	Xinye Zhang	Beijing Institute of Technology
Zehao Yuan	Naval Aviation Univ.	Yanxing Xu	Beijing Institute of Technology
Jianhua Lu	Naval Aviation Univ.	Zhihong Deng	Beijing Institute of Technology
Xiaolin Wang	Naval Aviation Univ.	Kai Shen	Beijing Institute of Technology
15:45-17:45	D12.74	15:45-17:45	D12.81
1416 Fault-tolerant formation control of multi-UAV systems based on distributed augmented state observer under jointly connected topologies		1110 A dynamic roll-isolation model for dual-spinning projectiles	
Bei Qian	Naval Aviation Univ.	Meng Zhang	Beijing Institute of Technology
Xianjun Shi	Naval Aviation Univ.	Jiatong Wu	Beijing Institute of Technology
Zhikai Xiao	Naval Aviation Univ.	Mengzhuo Xu	Beijing Institute of Technology
Gaoyang Yin	Naval Aviation Univ.	Kai Shen	Beijing Institute of Technology
Defeng Sun	Naval Aviation Univ.	Zhihong Deng	Beijing Institute of Technology
Qiwen Wang	Naval Aviation Univ.	15:45-17:45	D12.82
15:45-17:45	D12.75	1163 Physics-informed effective horizontal wind-context identification for high-spinning flight vehicles	
503 State-dependent guidance and control for high-spinning flight vehicles		Haocheng Peng	Beijing Institute of Technology
Xinye Zhang	Beijing Institute of Technology	Mengzhuo Xu	Beijing Institute of Technology
Kai Shen	Beijing Institute of Technology	Xinrui Luo	Beijing Institute of Technology
Yingxin Liu	Beijing Institute of Technology	Kai Shen	Beijing Institute of Technology
Zhengyu Wu	Beijing Institute of Technology	Zhihong Deng	Beijing Institute of Technology
15:45-17:45	D12.76	15:45-17:45	D12.83
742 A LiDAR-based integrated navigation and formation maintenance method for UAV swarms		1285 Trajectory-based platform recognition of rotary-wing-like and fixed-wing-like UAVs for low-altitude surveillance	
Qinglan Tu	Beijing Institute of Technology	Junhan Zhang	Nanjing Univ. of Science and Technology
Kai Shen	Beijing Institute of Technology	Liangming Wang	Nanjing Univ. of Science and Technology
Yuxuan Duan	Beijing Institute of Technology	Jian Fu	Nanjing Univ. of Science and Technology
Hao Zhang	Beijing Institute of Technology	Zhi Chen	Shanghai Univ.
Zihao Wei	Beijing Institute of Technology	Jinghao Gong	Nanjing Univ. of Science and Technology
		15:45-17:45	D12.84
		1411 Attitude control method for missile-borne coaxial UAV	

based on NTSMC

Yiwei Zhang	Nanjing Univ. of Science and Technology
Jian Fu	Nanjing Univ. of Science and Technology
Zhi Chen	Shanghai Univ.
Kailai Hao	Nanjing Univ. of Science and Technology
15:45-17:45	D12.85
1506 UAV target recognition algorithm based on a lightweight improved YOLOv11	
Jinghao Gong	Nanjing Univ. of Science and Technology
Jian Fu	Nanjing Univ. of Science and Technology
Zhi Chen	Shanghai Univ.
Junhan Zhang	Nanjing Univ. of Science and Technology
15:45-17:45	D12.86
1568 Covariance-driven cross-layer modulation for multi-agent cooperative trajectory keeping under communication constraints	
Siqi Zhou	Nanjing Univ. of Science and Technology
Jie Zhou	Nanjing Univ. of Science and Technology
Jian Fu	Nanjing Univ. of Science and Technology
Zhi Chen	Shanghai Univ.
15:45-17:45	D12.87
758 Bilateral cooperative landing control for nondestructive mobile recovery of a landing-gear-free unmanned aerial vehicle	
Xinyu Yu	Northwestern Polytechnical Univ.
Gangqi Dong	Northwestern Polytechnical Univ.
Wenjuan Wang	Third Academy, CASIC
Hongzhong Ma	Third Academy, CASIC
15:45-17:45	D12.88
882 基于混合图注意力与威胁交叉感知的多无人机协同控制研究	
Wenjia Miao	Hiwing Aviation General Equipment Co., Ltd.
Wenjuan Wang	Hiwing Aviation General Equipment Co., Ltd.
15:45-17:45	D12.89
1584 Research on precise flight control technology of indoor quad-rotor UAV based on improved cascade PID algorithm	
Zhen Wang	Naval Aviation Univ.
Luyu Liu	Naval Aviation Univ.
Shangcong Li	Naval Aviation Univ.
15:45-17:45	D12.90
761 Shaping DMP dynamics with embedded impedance for proactive teleoperation shared control	
Xin Huang	Central South Univ. of Forestry and Technology
Haifei Chen	Central South Univ. of Forestry and Technology
Zhiwen He	Central South Univ. of Forestry and Technology
15:45-17:45	D12.91
910 REDC-Net: Rotation-equivariant prior denoising and deep clustering for low-light robotic grasp detection	
Jiamin Zhang	Shanxi Univ.
Zixin Guan	Shanxi Univ.
Jing Yang	Shanxi Univ.
Lu Chen	Shanxi Univ.
15:45-17:45	D12.92
1053 Interactive mission-conditional online estimation of the zone of proximal development for robot-assisted skill training	

Yang Yang	Xi'an Shiyu Univ.
Shaofan Guo	Institute of Xi'an Aerospace Solid Propulsion Technology
15:45-17:45	D12.93
1142 Enhancing long-horizon robotic task reasoning with large language models for ambiguous human instructions	
Qi Guo	Northwestern Polytechnical Univ.
Mingchao Qi	Northwestern Polytechnical Univ.
Xing Liu	Northwestern Polytechnical Univ.
Zhengxiong Liu	Northwestern Polytechnical Univ.
Panfeng Huang	Northwestern Polytechnical Univ.
15:45-17:45	D12.94
1209 Cross-sensor hardness recognition method based on the TacQuad dataset	
Muzi Ding	Nantong Univ.
Yi Ni	South China Univ. of Technology
Sihan Zhang	South China Univ. of Technology
Qing Xu	Nantong Univ.
Xiaofeng Zhang	Nantong Univ.
Zhenyu Lu	South China Univ. of Technology
15:45-17:45	D12.95
1725 Multi-modal human-robot collaborative operation concept for lunar energy station assembly	
Chen Meng	National Key Laboratory of Aerospace Mechanism
Yang Gao	National Key Laboratory of Aerospace Mechanism
Weijun Wang	National Key Laboratory of Aerospace Mechanism
Yu Zhang	Institute of Aerospace System Engineering Shanghai
Junfeng Wang	Huazhong Univ. of Science and Technology
Chenkun Qi	Shanghai Jiao Tong Univ.
15:45-17:45	D12.96
832 Prescribed-time sliding mode control for roll stabilization of guided flight vehicle	
Wenhui Ma	Xi'an Technological Univ.
Jiahui Hong	China Academy of Launch Vehicle Technology
15:45-17:45	D12.97
1000 基于反向同步机制的交接班协同覆盖一体化设计	
Xianhai Feng	Air Force Engineering Univ.
Jiong Li	Air Force Engineering Univ.
Shuangxi Liu	National Univ. of Defense Technology
Jikun Ye	Air Force Engineering Univ.
15:45-17:45	D12.98
1074 变形飞行器事件触发柔性预设性能控制方法研究	
Hao Zhang	Northwestern Polytechnical Univ.
Wenxing Fu	Northwestern Polytechnical Univ.
15:45-17:45	D12.99
1240 双锥体高速滑翔飞行器综合性能分析	
Yushuo Mao	Xidian Univ.
Ziyang Chang	Xidian Univ.
Jin Qi	Xidian Univ.
Dongzhu Feng	Xidian Univ.
Pei Dai	Xidian Univ.

15:45-17:45	D12.100	15:45-17:45	D12.108
1613 <i>Modular integration method for modular microsatellite components</i>		624 <i>Complex network modeling of interdependent sensors and control systems in flight control systems</i>	
Hao Zhang	Northwestern Polytechnical Univ.	Shuo Wang	Beijing Technology and Business Univ.
Guanghui Liu	Northwestern Polytechnical Univ.	Xiaoyu Cui	Beijing Technology and Business Univ.
Jun Zhou	Northwestern Polytechnical Univ.	Zhiyao Zhao	Beijing Technology and Business Univ.
15:45-17:45	D12.101	Li Wang	Beijing Technology and Business Univ.
223 <i>Dynamic Allan variance-based noise characterization of MHD angular rate sensors</i>		15:45-17:45	D12.109
Cui Guo	Tiangong Univ.	416 <i>Fully adaptive fixed-time control of underwater manipulators considering asymmetric actuator saturation and unknown time-varying hydrodynamic disturbances</i>	
Yue Ji	Tiangong Univ.	Linfeng Chen	Nantong Univ.
15:45-17:45	D12.102	Shiyi Li	Nantong Univ.
791 <i>Cooperative encirclement of multi-agent systems in cross-domain environments based on MADDPG-CH</i>		Yelu Gu	Nantong Univ.
Fen Zhao	Tiangong Univ.	Qiuyue Qin	Nantong Univ.
Xin Liu	Tiangong Univ.	Xingjian Sun	Nantong Univ.
Ditai Wang	Tiangong Univ.	15:45-17:45	D12.110
Chenyang Yao	Tiangong Univ.	450 <i>UAV path planning based on adaptive chaotic turbulent particle swarm optimization</i>	
Hui Xiong	Tiangong Univ.	Shiyi Li	Nantong Univ.
15:45-17:45	D12.103	Linfeng Chen	Nantong Univ.
1292 <i>Safe path planning based on JPS-PFDWA algorithm for quadrotor helicopters in dynamic environments</i>		Xinyi Lu	Nantong Univ.
Jianchuan Guo	Tiangong Univ.	Liwang Huang	Nantong Univ.
Yifan Li	Tiangong Univ.	Xingjian Sun	Nantong Univ.
Yufan Shi	Tiangong Univ.	15:45-17:45	D12.111
Yafang Yang	Tiangong Univ.	1127 <i>Physics-constrained deep reinforcement learning for efficient, low-carbon, and reliable operation of data center microgrids</i>	
15:45-17:45	D12.104	Shen Li	Nanjing Univ. of Posts and Telecommunications
629 <i>Apollonius-based deployment strategies in multi-agent reach-avoid games</i>		Leyi Xu	Nanjing Univ. of Posts and Telecommunications
Liang Huang	Beihang Univ.	Yunqi Wang	Nanjing Univ. of Posts and Telecommunications
Xuwen Chen	Systems Engineering Research Institute, CSSC	15:45-17:45	D12.112
Zilu Chen	Beihang Univ.	1205 <i>Adaptive deployment and rapid response for multi-UAVs assisted maritime ISAC network</i>	
Liang Han	Beihang Univ.	Aoji Zhang	Zhengzhou Univ.
15:45-17:45	D12.105	Meng Liu	Zhengzhou Univ.
951 <i>Observability-aware trajectory optimization for monocular vision-based UAV interception</i>		Hongyan Dui	Zhengzhou Univ.
Guojun Shen	Beihang Univ.	Dongming Fan	Beihang Univ.
Zilu Chen	Beihang Univ.	15:45-17:45	D12.113
Liang Han	Beihang Univ.	1714 <i>Time-energy trade-offs in fixed-wing multi-UAV formation reconfiguration</i>	
15:45-17:45	D12.106	Wenliang Zhang	Beihang Univ.
1146 <i>Large language model-driven threat assessment and multi-UAV task allocation</i>		Xingshuo Hai	Beihang Univ.
Junhao Zhang	Beihang Univ.	Xing Guo	Beihang Univ.
Zilu Chen	Beihang Univ.	Qiang Feng	Beihang Univ.
Liang Han	Beihang Univ.	Zili Wang	Beihang Univ.
15:45-17:45	D12.107	15:45-17:45	D12.114
426 <i>Integrated acoustic positioning and adaptive control for unmanned underwater vehicles with uncertainty</i>		627 <i>Reinforcement learning-assisted artificial hummingbird algorithm for drone path planning in urban environments</i>	
Dong Liu	Institute of Acoustics, Chinese Academy of Sciences	Xiaoyang Jin	Central South Univ.
Zhaohui Peng	Institute of Acoustics, Chinese Academy of Sciences	Yong Yu	Central South Univ.
Tongchen Wang	Institute of Acoustics, Chinese Academy of Sciences	Quanli Guan	Central South Univ.
Ziwei Zhao	Institute of Acoustics, Chinese Academy of Sciences	Xing Gao	Central South Univ.
		Yuxin Liao	Central South Univ.

15:45-17:45	D12.115	15:45-17:45	D12.123
656 <i>Rapid assessment of evasion zone for vehicles under maneuver constraints</i>		782 <i>Cooperative transportation method for multiple UAVs under unknown wind disturbances</i>	
Guansheng Liu	National Univ. of Defense Technology	Bin Yuan	Xi'an Univ. of Technology
Xiang Zhou	National Univ. of Defense Technology	Xianghong Xue	Xi'an Univ. of Technology
Wei Zheng	National Univ. of Defense Technology	Chen zhang	Xi'an Univ. of Technology
15:45-17:45	D12.116	Yingmin Yi	Xi'an Univ. of Technology
808 <i>Bi-planar guidance method for terminal phase pursuit-evasion of high-speed vehicles based on genetic algorithm</i>		Youmin Zhang	Concordia Univ.
Yiwen Mu	National Univ. of Defense Technology	Lingxia Mu	Xi'an Univ. of Technology
Xiang Zhou	National Univ. of Defense Technology	15:45-17:45	D12.124
Nengwu Tao	National Univ. of Defense Technology	783 <i>Cooperative control of multiple UAVs for suspended payload transportation under input saturation constraints</i>	
Guojian Tang	National Univ. of Defense Technology	Bin Yuan	Xi'an Univ. of Technology
15:45-17:45	D12.117	Xianghong Xue	Xi'an Univ. of Technology
1507 <i>Efficient construction of safe flight corridors and trajectory planning for quadrotor UAVs in complex 3D environments</i>		Xinran Wang	Xi'an Univ. of Technology
Hang Ning	National Univ. of Defense Technology	Yingmin Yi	Xi'an Univ. of Technology
Wenjie Zhu	National Univ. of Defense Technology	Youmin Zhang	Concordia Univ.
Xiang Zhou	National Univ. of Defense Technology	Lingxia Mu	Xi'an Univ. of Technology
Hongbo Zhang	National Univ. of Defense Technology	15:45-17:45	D12.125
15:45-17:45	D12.118	841 <i>Predefined-time adaptive sliding mode-based attitude control for hybrid VTOL UAV under model uncertainties and actuator faults</i>	
1654 <i>Approximate analytical solution for ascent trajectory based on homotopy perturbation method</i>		Mengqi Zhou	Northwestern Polytechnical Univ.
Shen Zheng	National Univ. of Defense Technology	Ban Wang	Northwestern Polytechnical Univ.
Yangang Liang	National Univ. of Defense Technology	15:45-17:45	D12.126
Jianyong Zhou	National Univ. of Defense Technology	1197 <i>Fuel-optimal rocket attitude planning based on nonconvex optimization</i>	
Kebo Li	National Univ. of Defense Technology	Jiyu Sun	Beihang Univ.
15:45-17:45	D12.119	Liang Yan	Beihang Univ.
1476 <i>Vulnerability analysis of distributed state estimation against dual stealthy false data injection attacks on network edges</i>		Xiaoshan Gao	Beihang Univ.
Zixian Wu	Southeast Univ.	Han Wang	Beijing Institute of Technology
Guanzheng Zhang	Southeast Univ.	15:45-17:45	D12.127
Wenyong Xu	Southeast Univ.	1483 <i>MLK-YOLO: Efficient object detection via multi-scale large kernel attention and global-local feature evolution</i>	
Xia Wu	Southeast Univ.	Xing Han	State Grid Electric Power Engineering Research Institute Co., Ltd.
15:45-17:45	D12.120	Junhui Li	State Grid Electric Power Engineering Research Institute Co., Ltd.
1484 <i>Deadlock resolution in distributed multi-agent trajectory planning via a comprehensive priority model</i>		Yue Zhang	State Grid Electric Power Engineering Research Institute Co., Ltd.
Jingyu Chen	Southeast Univ.	Tianling Zhang	State Grid Electric Power Engineering Research Institute Co., Ltd.
Bozhen Qian	Southeast Univ.	Wenkai Yan	State Grid Electric Power Engineering Research Institute Co., Ltd.
Honghaotian Guan	Southeast Univ.	Huan Jin	State Grid Electric Power Engineering Research Institute Co., Ltd.
Wenyong Xu	Southeast Univ.	15:45-17:45	D12.128
15:45-17:45	D12.121	1525 <i>Restructuring and teaching practice of modern robotics technology from the perspective of undergraduate-graduate integration</i>	
1679 <i>Quantile-filtered clock synchronization under asymmetric network delays</i>		Xiaoshan Gao	Beihang Univ.
Jichun Zhu	Southeast Univ.	Liang Yan	Beihang Univ.
He Wang	Southeast Univ.	Yang Li	Beihang Univ.
Wenwu Yu	Southeast Univ.	15:45-17:45	D12.129
15:45-17:45	D12.122	296 <i>Dynamic predefined-time control based on deep reinforcement learning for hypersonic morphing vehicle</i>	
770 <i>Adaptive robust visual-inertial odometry for highly dynamic maneuvering environments</i>		Lei Cui	Univ. of Science and Technology Beijing
Kaiwen Yang	Xi'an Univ. of Technology		
Zijie He	Xi'an Univ. of Technology		
Lingxia Mu	Xi'an Univ. of Technology		
Ban Wang	Northwestern Polytechnical Univ.		
Nan Feng	Univ. of Science and Technology Beijing		
Xianghong Xue	Xi'an Univ. of Technology		

Chenguang Han	Univ. of Science and Technology Beijing	Xiaofan Hou	Air Force Engineering Univ.
15:45-17:45	D12.130	Danya Liang	Air Force Engineering Univ.
805 <i>PSO-enhanced adaptive filtering and nonlinear predictive control for robust UAV trajectory tracking under wind and noise</i>		Jixiang Tao	Air Force Engineering Univ.
Taishan Lou	Aerospace Information Technology Univ.	Yan Lv	Air Force Engineering Univ.
Lai Wei	Zhengzhou Univ. of Light Industry	15:45-17:45	D12.137
Yuzhao Jiao	Zhengzhou Univ. of Light Industry	1710 <i>A SysML-Modelica co-modeling and simulation method based on DDS communication</i>	
Guoqiang Ding	Zhengzhou Univ. of Light Industry	Bingda Tong	Chinese Aeronautical Establishment
15:45-17:45	D12.131	Jing He	Chinese Aeronautical Establishment
1308 <i>Hierarchical RL-adaptive MPC-CBF for safe navigation in narrow passages</i>		Jiaqiang Zhu	Chinese Aeronautical Establishment
Jiatao Hu	Nanjing Univ. of Aeronautics and Astronautics	15:45-17:45	D12.138
Weizheng Cheng	National Key Laboratory of Avionics Integration and Aviation System-of-Systems Synthesis	468 <i>Impact speed and angle constrained guidance law under drag uncertainty for gliding vehicle</i>	
Xiuhui Peng	Nanjing Univ. of Aeronautics and Astronautics	Xinwan Kong	Shanghai Mechanical and Electrical Engineering Institute
Lei Cui	Univ. of Science and Technology Beijing	Jin Huang	Shanghai Mechanical and Electrical Engineering Institute
15:45-17:45	D12.132	Changyu Bi	Beijing Institute of Technology
1680 <i>Three-dimensional urban UAV path planning based on chaotic particle swarm optimization algorithm</i>		Tingneng Fu	Shanghai Mechanical and Electrical Engineering Institute
Jin Xing	Shandong Univ. of Aeronautics	15:45-17:45	D12.139
Zhixiang Sun	Shandong Univ. of Aeronautics	506 <i>Obstacle avoidance trajectory planning for Mars landing based on graphs of convex sets</i>	
Xianli Yu	Jilin Univ.	Chunzheng Guo	Harbin Institute of Technology
Fangfang Zhang	Qilu Univ. of Technology (Shandong Academy of Sciences)	Honglong Kang	Beijing Aerospace Automatic Control Institute
Haikun Wang	Shandong Univ. of Aeronautics	Pengyu Wang	Harbin Institute of Technology
Xinxue Zhao	Shandong Univ. of Aeronautics	Yuhan Liu	Harbin Institute of Technology
15:45-17:45	D12.133	Yanning GUO	Harbin Institute of Technology
425 <i>An actuator-constrained impact-time-and-angle guidance law via variable-gain geometry and CLF correction</i>		15:45-17:45	D12.140
Ruihan Hou	Univ. of Sanya	1048 <i>Large-angle-of-attack underactuated control of near-space vehicle based on online LCDP feedback</i>	
Xueyong Ding	Univ. of Sanya	Shouyuan Qian	National Key Laboratory of Near-space Physics
15:45-17:45	D12.134	Lin Chen	National Key Laboratory of Near-space Physics
1505 <i>On distributed integrated flight/propulsion control for V/STOL aircraft</i>		Xiaoming Guo	National Key Laboratory of Near-space Physics
Mingyuan Yang	Tsinghua Univ.	15:45-17:45	D12.141
Shengyi Liu	Tsinghua Univ.	1170 <i>Decoupled pre-allocation of UAV tasks based on PSO and A* algorithm</i>	
Feng Xu	Tsinghua Univ.	Zuotao Song	National Univ. of Defense Technology
Hao Xu	Tsinghua Univ.	Yunchong Zhu	National Univ. of Defense Technology
Jihong Zhu	Tsinghua Univ.	Weilin Wang	Space Engineering Univ.
Xiangyang Wang	Tsinghua Univ.	Yangang Liang	National Univ. of Defense Technology
15:45-17:45	D12.135	Kebo Li	National Univ. of Defense Technology
1541 η -spectral control barrier functions: Computation-geometry duality for fixed-time envelope protection of STOVL aircraft		15:45-17:45	D12.142
Hao Xu	Tsinghua Univ.	1269 <i>Integrating instance segmentation for semantic mapping and path planning of indoor UAVs</i>	
Shengyi Liu	Tsinghua Univ.	Zan Zhang	Beijing Institute of Technology
Feng Xu	Tsinghua Univ.	Jiang Wang	Beijing Institute of Technology
Mingyuan Yang	Tsinghua Univ.	15:45-17:45	D12.143
Jihong Zhu	Tsinghua Univ.	1401 <i>Robust trajectory optimization for parafoil homing under hybrid uncertainty using polynomial chaos expansion</i>	
Xiangyang Wang	Tsinghua Univ.	Yilan Bai	National Univ. of Defense Technology
15:45-17:45	D12.136	Mengying Zhang	National Univ. of Defense Technology
641 <i>An improved invasive weed optimization framework for cooperative UAV path planning in complex surveillance environments</i>		Yangang Liang	National Univ. of Defense Technology
Qisong Han	Air Force Engineering Univ.		

Kebo Li	National Univ. of Defense Technology	Denghui Zhang	AVIC Shenyang Aircraft Design and Research Institute
15:45-17:45	D12.144	Ming Yang	Harbin Institute of Technology
497 <i>A robust MARL method for multi-satellite pursuit-evasion games</i>		Tao Chao	Harbin Institute of Technology
Baoyi Cui	Harbin Institute of Technology	15:45-17:45	D12.151
Ke Chen	Harbin Institute of Technology	1207 <i>Rapid scheduling strategy for low earth orbit constellations for continuous tracking of multiple maneuvering targets</i>	
Xin Ren	Harbin Institute of Technology	Jiacheng Li	Harbin Institute of Technology
Youmin Gong	Harbin Institute of Technology	Junzhi Cheng	Harbin Institute of Technology
Yanning Guo	Harbin Institute of Technology	Zijie Ji	China Academy of Space Technology
Panxing Huang	Beijing Institute of Control Engineering	Xiaoqing Zhong	China Academy of Space Technology
15:45-17:45	D12.145	Ju Huo	Harbin Institute of Technology
1576 <i>FedFPA-Q: Communication-efficient personalized federated learning for multi-UAV collaborative perception</i>		Tao Chao	Harbin Institute of Technology
Chenzhe Liu	Shanghai Univ.	15:45-17:45	D12.152
Antai Xie	Shanghai Univ.	1494 <i>Brain-inspired reinforcement learning for goal-reaching navigation</i>	
Linjing Chen	Shanghai Univ.	Jiaxin Yan	Univ. of Electronic Science and Technology of China
Xiaoqiang Ren	Shanghai Univ.	Jun Li	AVIC Chengdu Aircraft Design and Research Institute
15:45-17:45	D12.146	Huixin Li	AVIC Chengdu Aircraft Design and Research Institute
114 <i>Robust visual-LiDAR fusion SLAM for challenging environments</i>		Zebo Zhou	Univ. of Electronic Science and Technology of China
Runzhuo Yu	Harbin Institute of Technology	15:45-17:45	D12.153
Ke Fang	Harbin Institute of Technology	769 <i>Deep learning-based GNSS positioning error estimation method and performance analysis</i>	
Tao Chao	Harbin Institute of Technology	Juntai Qi	Nanjing Univ. of Aeronautics and Astronautics
Qing Guo	Univ. of Electronic Science and Technology of China	Qieqie Zhang	Nanjing Univ. of Aeronautics and Astronautics
15:45-17:45	D12.147	Xiaojie Tian	Nanjing Univ. of Aeronautics and Astronautics
445 <i>High speed multi-vehicle reentry guidance with consideration of angle and time coordination</i>		Le Fang	Nanjing Univ. of Aeronautics and Astronautics
Yujie Bai	Harbin Institute of Technology	Leyi Yang	Nanjing Univ. of Aeronautics and Astronautics
Wei He	Shanghai Electro-Mechanical Engineering Institute	Jizhou Lai	Nanjing Univ. of Aeronautics and Astronautics
Denghui Zhang	AVIC Shenyang Aircraft Design and Research Institute	15:45-17:45	D12.154
Tao Chao	Harbin Institute of Technology	850 <i>Visual semantic enhanced LiDAR triangle descriptor and loop closure detection</i>	
15:45-17:45	D12.148	Zehui Fu	Nanjing Univ. of Aeronautics and Astronautics
665 <i>Research on attitude control method of high speed morphing vehicle based on reinforcement learning</i>		Hanchong Cai	Nanjing Univ. of Aeronautics and Astronautics
Hongyang Ba	Harbin Institute of Technology	Wei Fang	Nanjing Univ. of Aeronautics and Astronautics
Wei He	Shanghai Electro-Mechanical Engineering Institute	Pin Lyu	Nanjing Univ. of Aeronautics and Astronautics
Denghui Zhang	AVIC Shenyang Aircraft Design and Research Institute	Cheng Yuan	Nanjing Univ. of Aeronautics and Astronautics
Tao Chao	Harbin Institute of Technology	Haowen Zhu	Nanjing Univ. of Aeronautics and Astronautics
15:45-17:45	D12.149	15:45-17:45	D12.155
768 <i>Research on a bidirectional adaptive RRT* path planning algorithm incorporating a variable elliptical sampling strategy</i>		904 <i>UAV low-altitude visual localization method based on joint constraints of geometric consistency and laser altitude</i>	
Yifan Chen	Nanning Vocational and Technical Univ.		
Wenjing Tian	Guilin Univ. of Electronic Technology		
Yuwei Ke	Nanning Vocational and Technical Univ.		
Jie Chen	Nanning Vocational and Technical Univ.		
Junxi Tian	Guilin Univ. of Electronic Technology		
15:45-17:45	D12.150		
1196 <i>Robust tightly-coupled stereo visual-inertial-UWB navigation</i>			
Jiaqi Cheng	Harbin Institute of Technology		
Xu Wen	Harbin Institute of Technology		

Qingxia Zhong	Nanjing Univ. of Aeronautics and Astronautics	103 Adaptive Extended State Observer-based Sliding Mode Control for Carrier-based Aircrafts during Landing	
Cheng Yuan	Nanjing Univ. of Aeronautics and Astronautics	Xiulin Zhang	AVIC Shenyang Aircraft Design and Research Institute
Jizhou Lai	Nanjing Univ. of Aeronautics and Astronautics	Yanfeng Liu	AVIC Shenyang Aircraft Design and Research Institute
Churong Ding	Nanjing Univ. of Aeronautics and Astronautics	Xinyu Feng	AVIC Shenyang Aircraft Design and Research Institute
Hongyang Wang	Nanjing Univ. of Aeronautics and Astronautics	Yang Zhang	AVIC Shenyang Aircraft Design and Research Institute
Zhimin Li	Nanjing Univ. of Aeronautics and Astronautics	Yifeng Wang	Harbin Institute of Tecnology
Pin Lyu	Nanjing Univ. of Aeronautics and Astronautics	Zhaoji Wang	Nanjing University of Aeronautics and Astronautics
		Shouzhao Sheng	Nanjing University of Aeronautics and Astronautics
15:45-17:45	D12.156	15:45-17:45	D12.160
923 An autonomous navigation and positioning method for UAVs based on visual map matching and inertial fusion		1049 Visual object perception method based on improved RT-DETR under cloud and fog interference	
Hongyang Wang	Nanjing Univ. of Aeronautics and Astronautics	Yuchun Wang	Nanjing Univ. of Aeronautics and Astronautics
Qieqie Zhang	Nanjing Univ. of Aeronautics and Astronautics	Cheng Yuan	Nanjing Univ. of Aeronautics and Astronautics
Hanyu Zhan	Nanjing Univ. of Aeronautics and Astronautics	Pin Lyu	Nanjing Univ. of Aeronautics and Astronautics
Cheng Yuan	Nanjing Univ. of Aeronautics and Astronautics	Siyuan Li	Nanjing Univ. of Aeronautics and Astronautics
Yi Lu	Nanjing Univ. of Aeronautics and Astronautics	Yuxuan Chen	Nanjing Univ. of Aeronautics and Astronautics
Qingxia Zhong	Nanjing Univ. of Aeronautics and Astronautics	Jizhou Lai	Nanjing Univ. of Aeronautics and Astronautics
15:45-17:45	D12.157	15:45-17:45	D12.161
932 Vision-inertial SLAM based navigation and positioning method for fixed-wing UAV landing		489 A dynamic grasping method for aerial manipulators based on vision	
Xiang Liu	Nanjing Univ. of Aeronautics and Astronautics	Dongfang Xu	Nanjing Univ. of Aeronautics and Astronautics
Qieqie Zhang	Nanjing Univ. of Aeronautics and Astronautics	Zehui Mao	Nanjing Univ. of Aeronautics and Astronautics
Zhimin Li	Nanjing Univ. of Aeronautics and Astronautics	Xunhong Lv	Nanjing Univ. of Aeronautics and Astronautics
Jizhou Lai	Nanjing Univ. of Aeronautics and Astronautics	Baohua Liu	Jiangsu Automation Research Institute
15:45-17:45	D12.158	15:45-17:45	D12.162
935 A visual-inertial navigation method for disturbance scenarios based on multi-dimensional quality assessment for feature selection		490 Robust autonomous landing of UAV on water based on visual guidance	
Churong Ding	Nanjing Univ. of Aeronautics and Astronautics	Jincheng Chen	Nanjing Univ. of Aeronautics and Astronautics
Cheng Yuan	Nanjing Univ. of Aeronautics and Astronautics	Zehui Mao	Nanjing Univ. of Aeronautics and Astronautics
Jizhou Lai	Nanjing Univ. of Aeronautics and Astronautics	Xunhong Lv	Nanjing Univ. of Aeronautics and Astronautics
Qingxia Zhong	Nanjing Univ. of Aeronautics and Astronautics	Baohua Liu	Jiangsu Automation Research Institute
Heqing Chen	Nanjing Univ. of Aeronautics and Astronautics	15:45-17:45	D12.163
Pin Lyu	Nanjing Univ. of Aeronautics and Astronautics	101 Maneuvering-based trajectory planning for berthing control of ASV via speed assignment with ILOS	
15:45-17:45	D12.159	Ting Sun	Dalian Maritime Univ.
		Yong Yin	Dalian Maritime Univ.

Cheng Liu	Dalian Maritime Univ.	Science and Technology
Zhaochun Liu	Dalian Maritime Univ.	Shenyang Aerospace Univ.
Helong Shen	Dalian Maritime Univ.	Shenyang Aerospace Univ.
Xiaobin Qian	Shanghai Maritime Univ.	Shenyang Aerospace Univ.
15:45-17:45	D12.164	China Academy of Civil Aviation
1311 <i>Online compensation of thermal drift in atomic device based on Faraday-rotation measurement</i>		
Silu Deng	Beihang Univ.	Science and Technology
Zehua Liu	Beihang Univ.	China Academy of Civil Aviation
Yuxin Cong	Beihang Univ.	Science and Technology
Haoying Pang	Beihang Univ.	Shenyang Aerospace Univ.
Jixi Lu	Beihang Univ.	
15:45-17:45	D12.165	
1748 <i>Atomic interferometer gyroscopes: Technological evolution, application challenges, and future perspectives</i>		
Qiuxin Zhang	Beijing Changcheng Institute of Metrology & Measurement	
Bin Chen	Beijing Changcheng Institute of Metrology & Measurement	
Dong Hu	Beijing Changcheng Institute of Metrology & Measurement	
Yu Wang	Beijing Changcheng Institute of Metrology & Measurement	
15:45-17:45	D12.166	
657 <i>A ranging-based distributed cooperative localization method using Lie group right invariant error extended Kalman filter</i>		
Xincan Luo	National Univ. of Defense Technology	
Maosong Wang	National Univ. of Defense Technology	
Wenqi Wu	National Univ. of Defense Technology	
Jun Mao	National Univ. of Defense Technology	
Xiaofeng He	National Univ. of Defense Technology	
15:45-17:45	D12.167	
751 <i>A lightweight semantic-prior SLAM method based on an improved YOLO11n for dynamic scenes</i>		
Luchang Tang	National Univ. of Defense Technology	
Maosong Wang	National Univ. of Defense Technology	
15:45-17:45	D12.168	
869 <i>An equivariant filter based GNSS-LiDAR-inertial odometry</i>		
Wentao Lu	Wuhan Univ.	
Wenning Li	Beidou Application Development Research Institute	
Chi Guo	Wuhan Univ.	
Ning Kang	Beidou Application Development Research Institute	
Yarong Luo	Wuhan Univ.	
15:45-17:45	D12.169	
1662 <i>The setting of IMU parameters in Kalman filtering-based information fusion</i>		
Qiang Hu	Tongji Univ.	
Yanhua Zou	Tongji Univ.	
Shuaiyi Huo	Tongji Univ.	
Haibo Ge	Tongji Univ.	
Wei Ouyang	Tongji Univ.	
15:45-17:45	D12.170	
498 <i>Robustness analysis of D3RQN-based UAV trajectory decision-making in partially observable environments</i>		
Xuhui Wang	China Academy of Civil Aviation	
Shenglong Zhang	Shenyang Aerospace Univ.	
Tengli Yu	Shenyang Aerospace Univ.	
Song Xu	Shenyang Aerospace Univ.	
Jing Guo	China Academy of Civil Aviation	
Yubin Xu	China Academy of Civil Aviation	
Ershen Wang	Shenyang Aerospace Univ.	
15:45-17:45	D12.171	
133 <i>Research on deep learning-based ultrasonic guided wave detection methods for carbon fiber composite material defects</i>		
Yiqun Lv	Qilu Univ. of Technology	
Qingzhao Jia	Qilu Univ. of Technology	
Huangzhi Yu	Qilu Univ. of Technology	
Shun Wang	Qilu Univ. of Technology	
Yanqiang Li	Qilu Univ. of Technology	
Daifeng Zhang	Qilu Univ. of Technology	
15:45-17:45	D12.172	
1188 <i>基于数据驱动的飞行仿真模型迁移校正</i>		
Ruizhe Ma	Beijing Aerospace Institute for Metrology and Measurement Technology	
Yanguo Hu	AVIC Shenyang Aircraft Design and Research Institute	
Yang Sun	Shanghai Jiao Tong Univ.	
Yanzhe Bai	Harbin Normal Univ.	
15:45-17:45	D12.173	
287 <i>A comprehensive review of core algorithms and performance analysis for multi-UAV collaborative navigation</i>		
Danting Sheng	Beijing Electro-mechanical Engineering Institute	
Yibin Wang	Beijing Electro-mechanical Engineering Institute	
Xiongzi Du	Beijing Electro-mechanical Engineering Institute	
Yuxin Niu	Beijing Electro-mechanical Engineering Institute	
15:45-17:45	D12.174	
183 <i>A nonlinear aerodynamic correction method for missile body based on BP neural network</i>		
Zhongyun Fan	Xi'an Modern Control Technology Research Institute	
Junmin Zhao	Xi'an Modern Control Technology Research Institute	
Gang Wang	Xi'an Modern Control Technology Research Institute	
Jiaqi Wang	Xi'an Modern Control Technology Research Institute	
Lei Su	Xi'an Modern Control Technology Research Institute	
Fuqiang Di	Xi'an Modern Control Technology Research Institute	
15:45-17:45	D12.175	
1064 <i>Research on formation and obstacle avoidance control of underactuated unmanned surface vessels under input constraints and GPS-denied environment</i>		
Xuecheng Zhou	Shanghai Univ.	

Yueying Wang	Shanghai Univ.
15:45-17:45	D12.176
275 <i>Waterproofness and electromagnetic environmental compliance design for distributed fly-by-wire flight control actuator servo controller</i>	
Xueyang Yu	Shanghai Aircraft Design and Research Institute
15:45-17:45	D12.177
516 基于鸽群优化的舰载机控制舵面配平	
Jiaxing Wang	AVIC Shenyang Aircraft Design and Research Institute
Yan Ding	AVIC Shenyang Aircraft Design and Research Institute
Yiming Fan	AVIC Shenyang Aircraft Design and Research Institute
Heqi Li	AVIC Shenyang Aircraft Design and Research Institute
15:45-17:45	D12.178
1571 <i>Compliance design method and application of oscillation and transient fault diagnosis in aircraft flight control hydraulic actuation system</i>	
Xueyang Yu	Shanghai Aircraft Design and Research Institute
15:45-17:45	D12.179
890 <i>Analysis of safety impact on startup mode of flight control backup system</i>	
Tian Zhao	AVIC First Aircraft Design and Research Institute
Feihong Jiang	AVIC First Aircraft Design and Research Institute
15:45-17:45	D12.180
1334 <i>Thrust-only emergency control for four-engine transport aircraft based on nonlinear dynamic inversion</i>	
Tan Li	AVIC First Aircraft Design and Research Institute
Lei Gong	AVIC First Aircraft Design and Research Institute



2026 International Conference on Guidance, Navigation and Control

August 7-9, 2026 Guilin, China

记录页



2026 International Conference on Guidance, Navigation and Control

August 7-9, 2026 Guilin, China

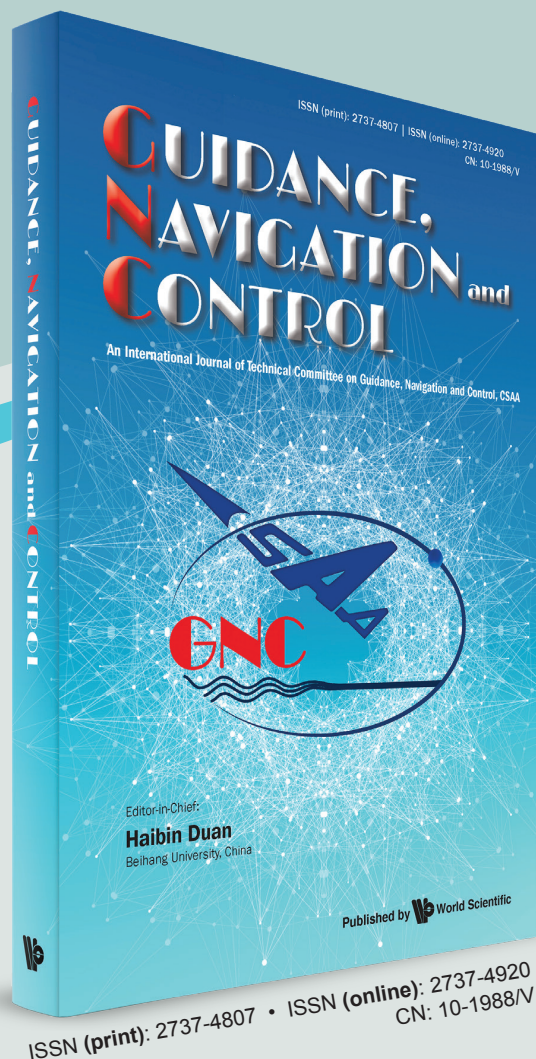
记录页



2026 International Conference on Guidance, Navigation and Control

August 7-9, 2026 Guilin, China

记录页



Call for
Papers

GUIDANCE, NAVIGATION and CONTROL

An International Journal of Technical Committee on Guidance,
Navigation and Control, CSAA



WeChat





We are now on Twitter!
Follow us at @gnc_wspc



<https://www.worldscientific.com/gnc>



2025 CiteScore: 2.9

2025 Impact Factor: 1.5

Editor-in-Chief

Haibin Duan (Beihang University, China)

Deputy Editors-in-Chief

Yanming Fan (Shenyang Aircraft Design and Research Institute, China)

Bin Jiang (Nanjing University of Aeronautics and Astronautics, China)

Antonios Tsourdos (Cranfield University, UK)

Youmin Zhang (Concordia University, Canada)

Executive Deputy Editor-in-Chief

Delin Luo (Xiamen University, China)

Managing Editor

Yimin Deng (Beihang University, China)

Journal Publishing Editor

Rachel Xu (World Scientific Publishing, Singapore)

Guidance, Navigation and Control is a peer-reviewed scientific journal in English. It publishes high quality original research articles and occasionally general reviews on theoretical, experimental and/or practical aspects of guidance, navigation and control. All articles are published both in print and in electronic form. There is no page charge.

Aims and Scope

Guidance, Navigation and Control (GNC) will report on advances in the understanding and utilization of guidance, navigation and control theories, technologies and systems. The journal serves as a platform for academic exchange by experts, scholars and researchers in these fields. The following subjects are of particular interest to the journal:

- Modeling, analysis and design of dynamics, control and guidance systems
- Stability, optimization, electronics, avionics, and information processing related to various vehicle systems (marine, ground, aeronautical, and astronautical systems)
- Theoretical and empirical research in guidance, navigation and control technologies
- Application of guidance, navigation and control technologies to real-world problems