Advanced Guidance and Control for Near-space Intelligent Vehicle

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The near-space intelligent vehicles gradually become the cutting-edge of research areas for future disruptive aircraft, whose characteristic integrates Information perception, data fusing and processing, Learning and decision-making and manipulation. Advanced guidance and control, as one of the key technologies for expanding space intelligent vehicles, has growing a current research hotspot. This topic aims to show and share new ideas on the development of near-space vehicles, new technologies in the field of advanced guidance and control, and the new achievements of intelligent spacecraft, among worldwide relevant experts, scholars and engineers. The topics of Paper include, but are not limited to: New technologies and methods of smart guidance and control applied in near-space intelligent vehicles, situational awareness, target recognition, task planning, training and learning, control execution, etc; New ideas for the development of trainable and executable, smart deformable intelligent aircraft in near-space.

临近空间智能飞行器的先进制导与控制

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临近空间智能飞行器是未来颠覆性飞行器的前沿研究领域，具有智能化信息感知、智能化数据融合与处理、学习与决策、智能操纵一体化等特征。先进制导与控制作为临近空间智能飞行器的关键技术之一，已成为当前研究热点。本专题旨在与世界范围内相关专家、学者、工程师一道，共同展示和分享临近空间智能飞行器发展的新思路、临近空间先进制导与控制领域的新技术以及临近空间智能飞行器的新成果。本专题论文主题包含但不限于：态势感知、目标智能识别、智能任务规划、学习控制、智能控制执行、临空飞行器智能化导航和制导等方面的新技术和新方法；以智能变形、可训练可学习等为代表的临近空间智能飞行器发展的新思路。