

航天控制

AEROSPACE CONTROL

1983 年创刊 双月刊

2024 年 4 月 第 42 卷, 总第 208 期, 第 2 期

目 次

制导、导航与控制

- 带有避障约束的分布式导弹编队饱和控制器设计 吴险峰, 陈宝文, 孙经广(3)
一种重力梯度/SINS/星光组合导航方法 黄志威, 跟华, 高朝晖, 田雨, 张学渊, 路坤锋(10)
面向太阳翼对接的调姿机构模糊自适应阻抗控制 樊颖, 商涛, 王蕊, 张继民, 赵雪霞, 石震宇(16)
基于 DDPG 的高速飞行器预测校正制导律设计 王晓威, 殷玮, 杨亚, 沈昱恒, 颜涛(22)
基于蜻蜓算法的飞行器自抗扰控制器设计 陈哲一, 高晓颖, 赵建军, 郑总准, 刘晓宇(29)
考虑威胁区通行概率的变体飞行器轨迹规划 王翰桐, 禹春梅, 程晓明(35)
分布式集群秩亏约束协同导航方法研究 秦峰, 王璞, 胡少勇, 薛书棋(42)

智能计算与数据

- 多人追逃的协商微分对策最优躲避策略 赵燊佳, 张海瑞, 梁卓, 吕瑞, 涂海峰(48)
基于深度强化学习的变外形飞行器姿态控制 丁溶, 曹承钰, 李繁飙, 谢启超, 廖宇新(55)
航天涉密信息保密审核大模型增强方法 郑佳斌, 周瀚阁, 蒋忠林, 陈勇(62)

测试、发射与控制

- 防空导弹 IMU 状态的时间序列预测方法 张学成, 朱沈瑞, 高国敬, 孟雅珺, 李一丁(69)
一种运载火箭多胞自适应姿态控制框架 何漫丽, 黄晓平, 岳小飞(74)

Contents

Guidance, Navigation and Control

Design of Distributed Missile Formation Saturation Controller with Obstacle Avoidance Constraints	WU Xianfeng, CHEN Baowen, SUN Jingguang(3)
One Gravity Gradient/SINS/Starlight Integrated Navigation Method	HUANG Zhiwei, ZONG Hua, GAO Zhaojun, TIAN Yu, ZHANG Xueyuan, LU Kunfeng(10)
Fuzzy Adaptive Impedance Control of Attitude Adjustment Mechanism for Solar Wing Docking	FAN Ying, SHANG Tao, WANG Rui, ZHANG Jimin, ZHAO Xuexia, SHI Zhenyu(16)
Design of Predictor-Corrector Guidance Law for High-speed Vehicle based on DDPG	WANG Xiaowei, YIN Wei, YANG Ya, SHEN Yuheng, YAN Tao(22)
An ADRC Flight Controller Design Based on Dragonfly Algorithm	CHEN Zheyi, GAO Xiaoying, ZHAO Jianjun, ZHENG Zongzhun, LIU Xiaoyu(29)
Trajectory Planning of Morphing Aircraft Based on the Probability of Passing through Threat Zones	WANG Hantong, YU Chunmei, CHENG Xiaoming(35)
The Research of the Rank-defect Constraint Collaborative Navigation Method of the Distributed Cluster	QIN Feng, WANG Pu, HU Shaoyong, XUE Shuqi(42)

Intelligent Computing and Data

Optimal Evasion Strategy of Negotiated Differential Game with Multi-Pursuers	ZHAO Shenjia, ZHANG Hairui, LIANG Zhuo, LYU Rui, TU Haifeng(48)
Attitude Control of Morphing Vehicle Based on Deep Reinforcement Learning	DING Rong, CAO Chengyu, LI Fanbiao, XIE Qichao, LIAO Yuxin(55)
Enhancing Aerospace Classified Information Security through Large-scale Models	ZHENG Jiabin, ZHOU Hange, JIANG Zhonglin, CHEN Yong(62)

Test, Launch and Control

A Time Series Method for Anti-aircraft Missile IMU State Prediction	ZHANG Xuecheng, ZHU Shenrui, GAO Guojing, MENG Yajun, LI Yiding(69)
A Polytope-Based Adaptive Attitude Control Framework of Launch Vehicle	HE Manli, HUANG Xiaoping, YUE Xiaofei(74)