

目 次

图智能计算

- 面向多视图异构图的分层投影嵌入方法 郝韵致, 郑铜亚, 王新宇, 宋明黎, 陈 纯, 周春燕(1)
多轮社交广告序列影响最大化 付冰洋, 张龙姣, 史麒豪, 王泽宇, 王 灿, 宋明黎(10)
多轮次影响传播下的增益节点成本最小化动态策略 张龙姣, 付冰洋, 史麒豪, 宋明黎, 王 灿, 章 悅(21)
面向缺失多元时间序列的图神经网络异常检测算法 高 杨, 王新宇, 贺 达, 宋明黎, 周春燕(32)
S-Cypher: 时态属性图模型上的时态图查询语言 蒋甜甜, 陈观林, 宋明黎, 杭海天, 王豪烨(41)

航空宇航科学与技术

- 针对运载火箭上升段考虑大风区减载的智能姿态控制方法 周 首, 杨 豪, 张士峰, 白锡斌, 王 峰(51)
航天器编队轨迹跟踪 Port-Hamiltonian 控制方法 刘 俊, 包素艳, 陈琪锋, 郝文康(64)
火箭横向模态耦合型自激振动的稳定性分析与仿真模拟 商 霖, 张海瑞, 孙向春, 宋志国, 高 峰, 孙冬伟(73)
数据驱动下的反导装备体系效能评估建模与仿真 赵海燕, 周 峰, 杨文静, 赵 静, 王小双(81)
柔性变形自加压水火箭的推力特性分析 刘龙斌, 丁少哲, 张士峰(90)
视频小卫星目标跟踪视野分区防脱靶控制 范才智, 钟子凯, 王猛猛, 杨跃能(98)
深度强化学习在导弹弹道规划中的应用 张 敬, 李 彤, 李建锋, 谭立国, 张士峰(109)
Dirichlet 分布的导弹命中精度贝叶斯估计 刘昊邦, 胡 涛, 陈 童, 梁俊鹏, 李明贵(119)

信息与通信工程·电子科学与技术

- 生成对抗学习式半监督遥感影像生成网络地图方法 伍江江, 宋洁琼, 田纪龙, 陈 浩, 沙志超, 李 军, 彭 双, 杜 春(128)
无人机非线性状态估计: 扩展精确高斯变分推理学习方法 刘久富, Elishahidi S. B. Mvungi, 汪恒宇, 解 晖, 刘向武, 王志胜(141)
混合变分模态长短期记忆网络水库表面位移形变预测 孙喜文, 贺小星, 鲁铁定, 王海城, 张云涛, 陈红康(151)
自适应交叉融合局部特征的空间目标小样本识别方法 谢文茜, 任笑圆, 王粲雨, 蒋李兵, 王 壮(162)
面向交通流预测的时空编码器-解码器模型 张 锦, 皮 煜, 孙 程, 魏叶华, 余 飞, 姚 卫(173)
电场隐身型外加电流阴极保护系统电流优化控制技术 姜润翔, 杨鹏程, 陈新刚, 孙兆龙, 张伽伟(183)

机械工程·控制科学与工程

- 热环境中黏弹性基体上 FG-CNTRC Kirchhoff 板的自由振动特性分析 吴 栋, 张大鹏, 于宝石, 雷勇军(194)
扩展空间子集模拟的马尔可夫链可靠性优化方法 袁修开, 陈敬强, 张景豫, 谭智勇, 董一巍(203)
杆式射流水中运动特性影响因素分析 陈 兴, 卢永刚, 张存旺(213)
模糊层次分析法在高速磁浮列车磁悬浮系统综合评估中的应用 翟明达, 刘 信, 李晓龙, 龙志强(222)
脉冲式激光多普勒测速仪的理论与仿真分析 陈兰剑, 周 健, 金世龙(232)

JOURNAL OF NATIONAL UNIVERSITY OF DEFENSE TECHNOLOGY

Vol. 47 No. 3

June 2025

CONTENTS

Graph Intelligent Computing

- Multi-view heterogeneous graph embedding method with hierarchical projection HAO Yunzhi, ZHENG Tongya, WANG Xingen, WANG Xinyu, SONG Mingli, CHEN Chun, ZHOU Chunyan (1)
Multi-round social advertising sequence influence maximization FU Bingyang, ZHANG Longjiao, SHI Qihao, WANG Zeyu, WANG Can, SONG Mingli (10)
Adaptive strategy for boosting node costs minimization in multi-round influence ZHANG Longjiao, FU Bingyang, SHI Qihao, SONG Mingli, WANG Can, ZHANG Yue (21)
Anomaly detection algorithm based on graph neural network for missing multivariate time series GAO Yang, WANG Xinyu, HE Da, SONG Mingli, ZHOU Chunyan (32)
S-Cypher: temporal query language on the temporal property graph model JIANG Tiantian, CHEN Guanlin, SONG Mingli, HANG Haitian, WANG Haoye (41)

Aeronautical and Astronautical Science and Technology

- Intelligent attitude control method of launch vehicle during ascending phase considering load reduction in high wind zone ZHOU Shou, YANG Hao, ZHANG Shifeng, BAI Xibin, WANG Feng (51)
Port-Hamiltonian control method for spacecraft formation trajectory tracking LIU Jun, BAO Suyan, CHEN Qifeng, HAO Wenkang (64)
Stability analysis and simulation of transverse mode-coupled self-excited vibration of rocket SHANG Lin, ZHANG Hairui, SUN Xiangchun, SONG Zhiguo, GAO Feng, SUN Dongwei (73)
Data-driven effectiveness evaluation modeling and simulation of anti-missile equipment system ZHAO Haiyan, ZHOU Feng, YANG Wenjing, ZHAO Jing, WANG Xiaoshuang (81)
Analysis on the thrust characteristics of flexible deformable self-pressurized water rocket LIU Longbin, DING Shaozhe, ZHANG Shifeng (90)
Anti-off-target control of target tracking for small video satellite based on field of view zoning FAN Caizhi, ZHONG Zikai, WANG Mengmeng, YANG Yueneng (98)
Application of deep reinforcement learning to missile trajectory planning ZHANG Jing, LI Tong, LI Jianfeng, TAN Liguo, ZHANG Shifeng (109)
Bayesian estimation of missile hit accuracy for Dirichlet distribution LIU Haobang, HU Tao, CHEN Tong, LIANG Junpeng, LI Minggui (119)

Information and Communication Engineering · Electronic Science and Technology

- Online map generation method from remote sensing images via semi-supervised adversarial learning WU Jiangjiang, SONG Jieqiong, TIAN Jilong, CHEN Hao, SHA Zhichao, LI Jun, PENG Shuang, DU Chun (128)
Nonlinear state estimation for unmanned aerial vehicles: extended exactly Gaussian variational inference learning method LIU Jiafu, Elishahidi S. B. Mvungi, WANG Hengyu, XIE Hui, LIU Xiangwu, WANG Zhisheng (141)
Mix variational mode decomposition long short-term memory for predicting of reservoir surface displacement and deformation SUN Xiwen, HE Xiaoxing, LU Tieding, WANG Haicheng, ZHANG Yuntao, CHEN Hongkang (151)
Few-shot space target recognition method based on adaptive cross fusion of local features XIE Wenxi, REN Xiaoyuan, WANG Canyu, JIANG Libing, WANG Zhuang (162)
Spatial-temporal encoder-decoder model for traffic flow prediction ZHANG Jin, PI Yu, SUN Cheng, WEI Yehua, YU Fei, YAO Wei (173)
Current optimization control technology of impressed current cathodic protection system with electric field stealth JIANG Runxiang, YANG Pengcheng, CHEN Xingang, SUN Zhaolong, ZHANG Jiawei (183)

Mechanical Engineering · Control Science and Engineering

- Free vibration characteristics analysis of FG-CNTRC Kirchhoff plates on viscoelastic substrates in thermal environment WU Dong, ZHANG Dapeng, YU Baoshi, LEI Yongjun (194)
Markov chain reliability optimization method for augmented space subset simulation YUAN Xiukai, CHEN Jingqiang, ZHANG Jingyu, TAN Zhiyong, DONG Yiwei (203)
Research on the influences of motion characteristics of rod jet under water CHEN Xing, LU Yonggang, ZHANG Cunwang (213)
Application of fuzzy analytic hierarchy process in comprehensive evaluation of suspension system in high-speed maglev train ZHAI Mingda, LIU Xin, LI Xiaolong, LONG Zhiqiang (222)
Theoretical and simulation analysis of the pulsed LDV CHEN Lanjian, ZHOU Jian, JIN Shilong (232)