

控制理论与应用

第42卷 第3期 2025年3月

目次

论文与报告

- 受扰多智能体系统有限时间分布式时变优化 朱文博, 张师峥, 王庆领 (433)
- 基于平衡补偿滑模策略的飞机防滑制动与纠偏协同控制 ... 王远飞, 杜城龙, 彭浩, 李繁飙, 桂卫华 (442)
- 基于补偿控制的自适应模型预测控制 张雪敏, 富月 (455)
- 带有输入死区的欠驱动水面船有限时间路径跟踪控制 王元慧, 王心玮, 邵兴超, 任哲达 (463)
- 带有姿态估计反馈和数据驱动模型的微动平台角位移控制 杜章铭, 周超, 王硕 (473)
- 基于自适应迭代学习控制的柔性翼鲁棒输出调节 孟亭亭, 张一鹏, 张爽 (482)
- 基于强化学习的异构多智能体系统最优输出调节 熊春萍, 马倩 (491)
- 考虑网络容侵机制的无人机集群协同编队组网策略 章招铭, 伍益明, 郑宁, 朱晨睿, 孟伟 (499)
- 基于观测器的复杂网络事件触发量化同步控制 黄玲, 王云飞, 张恒艳 (511)
- 基于孪生网络的场景编码与智能车多尺度激光定位 陶倩文, 胡钊政, 孙勋培, 万金杰, 陈琪莉 (521)
- 基于速率编码的极低延迟深度脉冲神经网络研究 熊志民, 陈云华, 冯忍, 陈平华 (531)
- 强化学习驱动下的柔性机械臂双时间尺度组合控制
..... 刘城焱, 胡健, 姚建勇, 谭天乐, 刘宇, 林家伟 (541)
- 深度强化学习下的多智能体思考型半多轮通信网络 邹启杰, 汤宇, 高兵, 赵锡玲, 张哲婕 (553)
- 带有时滞脉冲的非线性随机系统的稳定性分析 谢本旺, 姚凤麒, 程培 (563)
- 基于WPG-KNMF的非线性动态过程监控研究 张成, 邓成龙, 李元 (569)
- 基于自适应双层无迹卡尔曼滤波神经网络的铝电解电流效率预测模型
..... 方小燕, 姚立忠, 罗海军, 张玉泽, 易军 (579)
- 基于改进交互式多模型算法的车辆高精度定位 戴玉峰, 苏圣超, 崔文霞, 汪义旺 (590)
- 四旋翼飞行器预定时间自适应轨迹跟踪控制 朱官超, 崔国增, 马倩, 李泽 (601)
- 基于全局与局部肌电特征交互的手势识别网络 肖城钢, 闵华松 (609)
- 基于隐蔽性裕度的离散事件系统监控 王飞, 戴茵茵, 金福江 (618)
- 基于PREA环的平行无人指挥控制系统 李雪松, 李清伟, 罗子娟, 王飞跃, 费爱国 (627)

短文

- 基于随机干扰校正的风力机独立变桨优化控制 刘军, 张泽秋, 甘乾煜, 胡朝阳 (635)
- 运行时间区间可变的地铁列车无模型自适应迭代学习控制 焦世广, 侯忠生 (642)

CONTROL THEORY & APPLICATIONS

Vol. 42 No. 3 Mar. 2025

CONTENTS

Papers and Reports

- Finite-time distributed time-varying optimization of disturbed multi-agent systems
..... ZHU Wen-bo, ZHANG Shi-zheng, WANG Qing-ling (433)
- Cooperative control of aircraft anti-skid braking and deflection correction based on balance-compensated sliding mode strategy
..... WANG Yuan-fei, DU Cheng-long, PENG Hao, LI Fan-biao, GUI Wei-hua (442)
- Adaptive model predictive control based on compensation control ZHANG Xue-min, FU Yue (455)
- Finite-time path following control for underactuated surface vessels with input dead-zone
..... WANG Yuan-hui, WANG Xin-wei, SHAO Xin-chao, REN Zhe-da (463)
- Angular control with attitudes estimation feedback and data-driven model for fine motion platform
..... DU Zhang-ming, ZHOU Chao, WANG Shuo (473)
- Adaptive iterative learning control for the robust output regulation of a flexible wing system
..... MENG Ting-ting, ZHANG Yi-peng, ZHANG Shuang (482)
- Optimal output regulation of heterogeneous multi-agent systems via reinforcement learning
..... XIONG Chun-ping, MA Qian (491)
- Collaborative formation networking strategy for UAVS considering network attack tolerance mechanism
..... ZHANG Zhao-ming, WU Yi-ming, ZHENG Ning, ZHU Chen-ru, MENG Wei (499)
- Observers-based event-triggered quantization synchronization control for complex networks
..... HUANG Ling, WANG Yun-fei, ZHANG Heng-yan (511)
- Scene coding for multi-scale LiDAR-based localization of intelligent vehicle with Siamese network
..... TAO Qian-wen, HU Zhao-zheng, SUN Xun-pei, WAN Jin-jie, CHEN Qi-li (521)
- Ultra-low-latency deep spiking neural network based on rate coding
..... XIONG Zhi-min, CHEN Yun-hua, FENG Ren, CHEN Ping-hua (531)
- Dual time scale combination control of flexible manipulator driven by reinforcement learning
..... LIU Cheng-yan, HU Jian, YAO Jian-yong, TAN Tian-le, LIU Yu, LIN Jia-wei (541)
- The thinking communication network with semi-multiple communication cycles under the multi-agent deep reinforcement learning
..... ZOU Qi-jie, TANG Yu, GAO Bing, ZHAO Xi-ling, ZHANG Zhe-jie (553)
- Stability analysis of nonlinear stochastic systems with delayed impulses
..... XIE Ben-wang, YAO Feng-qi, CHENG Pei (563)
- Research on nonlinear dynamic processes monitoring based on WPG-KNMF
..... ZHANG Cheng, DENG Cheng-long, LI Yuan (569)
- Prediction model for the current efficiency of aluminum electrolysis based on the adaptive double layer unscented Kalman filter neural network
..... FANG Xiao-yan, YAO Li-zhong, LUO Hai-jun, ZHANG Yu-ze, YI Jun (579)
- High-precision vehicle positioning based on improved interacting multiple model algorithm
..... DAI Yu-feng, SU Sheng-chao, CUI Wen-xia, WANG Yi-wang (590)
- Predefined-time adaptive trajectory tracking control for a quadrotor UAV
..... ZHU Guan-chao, CUI Guo-zeng, MA Qian, LI Ze (601)
- Gesture recognition network based on the interaction of global and local myoelectric features
..... XIAO Cheng-gang, MIN Hua-song (609)
- Supervisory control on opacity-margin of discrete event systems WANG Fei, DAI Yin-yin, JIN Fu-jiang (618)
- Parallel unmanned command and control system based on PREA loop
..... LI Xue-song, LI Qing-wei, LUO Zi-juan, WANG Fei-yue, FEI Ai-guo (627)

Brief Papers

- Stochastic disturbance accommodating for wind turbines independent pitch optimization control
..... LIU Jun, ZHANG Ze-qiu, GAN Qian-yu, HU Zhao-yang (635)
- Model-free adaptive iterative learning control for subway train with variable operation time interval
..... JIAO Shi-guang, HOU Zhong-sheng (642)