

控制理论与应用

第41卷 第12期 2024年12月

目 次

综述与评论

- 基于脉冲神经网络的智能控制研究进展 刘晓德, 郭宇飞, 黄旭辉, 马 喆 (2189)
基于深度学习的群体行为识别: 综述与展望 朱晓林, 王冬丽, 欧阳万里, 李抱朴, 周 彦, 刘金富 (2207)
信息物理系统攻击威胁的防御策略综述 文成林, 杨 力 (2224)

论文与报告

- 一类多生产线可重入制造系统的层次化鲁棒控制策略 张春阳, 高 庆, 吕金虎, 陈 巍, 王健男 (2237)
网联车辆编队节油速度轨迹优化和分布式控制 杨冬琪, 段洪君, 郭 戈, 张忍永康 (2249)
一类具有时变系数的抛物系统的积分输入状态镇定问题 陈巧玲, 郑 军, 朱谷川 (2259)
基于扰动观测器的柔性机械臂鲁棒边界控制 陈 崇, 楼旭阳, 崔宝同 (2269)
基于熵和不等概率的量子强化学习控制 张玉瑶, 匡 森 (2277)
多信道攻击下Markov跳变系统的异步动态事件触发与量化控制
..... 胡梦洁, 王燕舞, 杨春雨, 代 伟, 施欣晨 (2286)
三自由度直升机基于无模型自适应的姿态控制 王介港, 王向华, 王向荣, 张子叶, 王建东 (2295)
基于相似日与BiLSTM组合的短期电力负荷预测 祁宇轩, 范俊岩, 吴定会, 汪 晶 (2304)
激光通信快速反射镜系统辨识与平衡截断 张建强, 孙崇尚, 吴佳彬, 李智斌, 周克敏 (2315)
高斯过程泊松多伯努利混合滤波算法及其变分优化 李翠芸, 许 琦, 姬红兵, 谢金池 (2325)
动态事件触发下的孤岛微电网分布式协同控制 张 奕, 李 泽, 崔国增, 郝万君, 周成龙 (2335)
六足机器人双向并行蒙特卡洛树搜索步态规划 胡立坤, 刘恒佳, 王一飞, 徐大也, 王小勇 (2345)
基于WD-MNPE-CVA的带钢热轧全流程动态过程监测方法 董 洁, 陈柔汝, 彭开香 (2356)
多传感器数据融合下的无人机高度扩张状态观测器设计 陈汉泉, 陶 杰, 鲁仁全 (2365)
分布式电池储能系统在概率输入延时下的荷电状态安全均衡控制 卢坤杰, 田恩刚, 王立成 (2374)
基于动态模糊神经网络的出水含氮参数软测量方法 蒙 西, 张 寅, 乔俊飞 (2383)

短文

- 不确定非线性系统的全状态约束镇定控制 贾付金, 张天良, 陆俊纬 (2393)
最简结构神经网络的量子态估计及其性能对比 丛 爽, 李友志 (2401)

* * * *

- 《控制理论与应用》征稿简则 (2408)

CONTROL THEORY & APPLICATIONS

Vol. 41 No. 12 Dec. 2024

CONTENTS

Survey and Reviews

- Research advance in intelligent control based on spiking neural networks
..... LIU Xiao-de, GUO Yu-fei, HUANG Xu-hui, MA Zhe (2189)
- Group activity recognition based on deep learning: Overview and outlook
..... ZHU Xiao-lin, WANG Dong-li, OUYANG Wan-li, LI Bao-pu, ZHOU Yan, LIU Jin-fu (2207)
- Research survey on defense strategy of attack threat in cyber physical systems WEN Cheng-lin, YANG Li (2224)

Papers and Reports

- A hierarchial robust control strategy for multi-line re-entrant manufacturing systems
..... ZHANG Chun-yang, GAO Qing, LÜ Jin-hu, CHEN Wei, WANG Jian-nan (2237)
- Optimizing fuel-saving speed trajectory and distributed control for connected automatic vehicles platoon
..... YANG Dong-qi, DUAN Hong-jun, GUO Ge, ZHANG Ren-yong-kang (2249)
- Integral input-to-state stabilization of a class of parabolic systems with time-varying coefficients
..... CHEN Qiao-ling, ZHENG Jun, ZHU Gu-chuan (2259)
- Robust boundary control of flexible manipulators based on disturbance observer
..... CHEN Dong, LOU Xu-yang, CUI Bao-tong (2269)
- Quantum reinforcement learning control based on entropy and unequal probability ZHANG Yu-yao, KUANG Sen (2277)
- Asynchronous dynamic event-triggered control of Markov jump systems with multichannel attacks and quantized measurement HU Meng-jie, WANG Yan-wu, YANG Chun-yu, DAI Wei, SHI Xin-chen (2286)
- Model free adaptive attitude control for a 3-DOF helicopter
..... WANG Jie-gang, WANG Xiang-hua, WANG Xiang-rong, ZHANG Zi-ye, WANG Jian-dong (2295)
- Short term power load forecasting based on the combination of similar days and BiLSTM
..... QI Yu-xuan, FAN Jun-yan, WU Ding-hui, WANG Jing (2304)
- System identification and balanced truncation of fast steering mirror for laser communication
..... ZHANG Jian-qiang, SUN Chong-shang, WU Jia-bin, LI Zhi-bin, ZHOU Ke-min (2315)
- Gaussian process Poisson multi-Bernoulli mixture filtering and its variational optimization
..... LI Cui-yun, XU Qi, JI Hong-bing, XIE Jin-chi (2325)
- Distributed cooperative control of islanded microgrids under dynamic event trigger
..... ZHANG Yi, LI Ze, CUI Guo-zeng, HAO Wan-jun, ZHOU Cheng-long (2335)
- Bidirectional parallel Monte Carlo tree search gait planning for hexapod robot
..... HU Li-kun, LIU Heng-jia, WANG Yi-fei, XU Da-ye, WANG Xiao-yong (2345)
- Dynamic process monitoring based on WD-MNPE-CVA for hot strip mill plant-wide process
..... DONG Jie, CHEN Rou-ru, PENG Kai-xiang (2356)
- Extended state observer design for altitude of UAV with multi-sensor data fusion
..... CHEN Han-quan, TAO Jie, LU Ren-quan (2365)
- Distributed state-of-charge secure balance control for battery energy storage systems under probabilistic input time-delays
..... LU Kun-jie, TIAN En-gang, WANG Li-cheng (2374)
- Soft-sensing method for effluent nitrogen parameters based on a dynamic fuzzy neural network
..... MENG Xi, ZHANG Yin, QIAO Jun-fei (2383)

Brief Papers

- Full-state constraints stabilization control for uncertain nonlinear systems
..... JIA Fu-jin, ZHANG Tian-liang, LU Jun-wei (2393)
- Quantum state estimation with minimal structured neural networks and its performance comparison
..... CONG Shuang, LI You-zhi (2401)