

控制理论与应用

第40卷 第9期 2023年9月

目次

论文与报告

- 面向FPGA便捷部署的智能模型预测控制 李星辰, 赵斐然, 孟庆辉, 游科友 (1519)
- 网络环境下非线性切换系统的固定时间控制 马加立, 费树岷, 崔国增 (1529)
- 基于方位信息的无人机编队控制设计与验证 孙文涵, 鲜 斌 (1537)
- 四轮转向车辆转向解耦的双点跟踪控制 谭晓军, 刘德亮, 熊会元, 尹文成, 潘跃龙 (1547)
- 具有空间扩散和尺度结构的非线性害虫模型的最优不育控制 张泰年, 雒志学, 王汝军 (1555)
- 不对称约束多人非零和博弈的自适应评判控制 李梦花, 王 鼎, 乔俊飞 (1562)
- 具有有界时滞的脉冲随机泛函微分系统的有限时间稳定 王国庆, 姚凤麒 (1569)
- 无参考值情况下自诊断传感器设计方法研究 蒋栋年, 高玉鑫 (1576)
- 霉变小麦气相色谱-离子迁移谱的宽度学习检测模型 秦 瑶, 廉飞宇, 潘 泉, 张 元 (1585)
- 考虑左转汇入的干线协调控制与速度引导优化 杨晓芳, 李婷瑞 (1595)
- 事件触发传输机制下线性随机系统的间歇故障检测 怀务祥, 高 明, 盛 立 (1602)
- 快速平均一致与多采样率下储能系统精准功率分配 吴 涵, 柴 利, 田玉楚 (1611)
- 微手系统的鲁棒无源跟踪控制(英文) 步 妮, 李小永, 张玉义 (1620)
- 基于滤波的分段线性Hammerstein系统的递推辨识方法 刘喜梅, 樊亚敏, 李梅航 (1627)
- 有向网络分布式优化的Barzilai-Borwein梯度跟踪方法 高 娟, 刘新为 (1637)
- 级联触发策略下非结构化道路的自主卡车队列控制
..... 岳 伟, 吕 顺, 刘中常, 李莉莉, 王丽媛, 邹存名 (1646)
- 强非线性中立型随机时滞系统的间歇性反馈控制 宋公飞, 张子梦, 李 涛 (1657)
- 基于混合阈值事件触发机制的船舶自适应神经滑模控制 李纪强, 张国庆, 张显库, 张卫东 (1665)
- 面向电动汽车的分布式储能主动汇聚与协同优化方法研究
..... 曾 君, 符致敏, 黄向敏, 袁功献, 刘俊峰 (1672)
- 永磁同步电机多步模型预测电流控制球形编码研究
..... 李耀华, 王孝宇, 陈桂鑫, 刘子焜, 刘东梅, 任 超 (1683)

短文

- 基于障碍Lyapunov函数的未知控制方向非线性系统的约束鲁棒输出调节 孙伟杰, 乔雨晨, 彭云建 (1696)

* * * *

- 《控制理论与应用》征稿简则 (1702)

CONTROL THEORY & APPLICATIONS

Vol. 40 No. 9 Sep. 2023

CONTENTS

Papers and Reports

- Intelligent model predictive control with efficient FPGA implementation
..... LI Xing-chen, ZHAO Fei-ran, MENG Qing-hui, YOU Ke-you (1519)
- Fixed-time control for switched nonlinear systems under the network environment
..... MA Jia-li, FEI Shu-min, CUI Guo-zeng (1529)
- Bearing-only formation control for multiple unmanned aerial vehicles with real time experimental verification
..... SUN Wen-han, XIAN Bin (1537)
- Dual-point tracking control for four-wheel steering vehicle steering decoupled
..... TAN Xiao-jun, LIU De-liang, XIONG Hui-yuan, YIN Wen-cheng, PAN Yue-long (1547)
- Optimal contraception control for a nonlinear vermin model with spatial diffusion and size-structure
..... ZHANG Tai-nian, LUO Zhi-xue, WANG Ru-jun (1555)
- Adaptive critic control for multi-player non-zero-sum games with asymmetric constraints
..... LI Meng-hua, WANG Ding, QIAO Jun-fei (1562)
- Finite-time stability of impulsive stochastic functional differential systems with bounded delays
..... WANG Guo-qing, YAO Feng-qi (1569)
- Research on design method of self-diagnosis sensor without reference value JIANG Dong-nian, GAO Yu-xin (1576)
- A broad learning detection model on gas chromatography-ion migration spectrum of mildew wheat
..... QIN Yao, LIAN Fei-yu, PAN Quan, ZHANG Yuan (1585)
- Optimization of arterials coordination control and speed guidance considering the convergence of left-turning vehicles
..... YANG Xiao-fang, LI Ting-rui (1595)
- Intermittent fault detection for linear stochastic systems under event-triggered transmission mechanism
..... HUAI Wu-xiang, GAO Ming, SHENG Li (1602)
- Precise power allocation with fast average consensus and multi-rate sampling for energy storage systems
..... WU Han, CHAI Li, TIAN Yu-chu (1611)
- Robust passive tracking control for micro-hand system BU Ni, LI Xiao-yong, ZHANG Yu-yi (1620)
- Filtering-based recursive identification methods for piecewise-linear Hammerstein systems
..... LIU Xi-mei, FAN Ya-min, LI Mei-hang (1627)
- Barzilai-Borwein gradient tracking method for distributed optimization over directed networks
..... GAO Juan, LIU Xin-wei (1637)
- Cooperative control of autonomous truck platoon on unstructured road based on cascade-trigger strategy
..... YUE Wei, LÜ Shun, LIU Zhong-chang, LI Li-li, WANG Li-yuan, ZOU Cun-ming (1646)
- Intermittent feedback control for highly nonlinear neutral stochastic delay systems
..... SONG Gong-fei, ZHANG Zi-meng, LI Tao (1657)
- Adaptive neural sliding mode control for USV with the hybrid threshold event-triggered mechanism
..... LI Ji-qiang, ZHANG Guo-qing, ZHANG Xian-ku, ZHANG Wei-dong (1665)
- Research on active convergence and collaborative optimization method of distributed energy storage for electric vehicles
..... ZENG Jun, FU Zhi-min, HUANG Xiang-min, YUAN Gong-xian, LIU Jun-feng (1672)
- Multi-step model predictive current control of permanent magnet synchronous motor based on sphere decoding
..... LI Yao-hua, WANG Xiao-yu, CHEN Gui-xin, LIU Zi-kun, LIU Dong-mei, REN Chao (1683)

Brief Papers

- Constraint robust output regulation for nonlinear systems with unknown control direction based on a barrier Lyapunov function
..... SUN Wei-jie, QIAO Yu-chen, PENG Yun-jian (1696)