

控制理论与应用

第38卷 第1期 2021年1月

目次

论文与报告

- 自适应事件触发网络化非线性系统滤波器设计·····相 赟, 林 崇, 陈 兵(1)
- 车载惯性稳定平台的神经网络滑模控制·····贾 桐, 李秀智, 张祥银(13)
- 无人驾驶车辆稳态漂移的无模型自适应控制·····王洪斌, 左佳铄, 刘世达, 郑 维, 王 力(23)
- 形状记忆合金手指系统的输出力自适应控制·····李晓光, 张 弼, 张道辉, 赵新刚, 韩建达(33)
- 直拉硅单晶非均匀相变温度场最优控制·····张 晶, 刘 丁, 杜燕军(44)
- 船舶航向保持运动的间接自回归遍历模型建模·····卢秋铸, 吴 军, 陈佰健, 杨 鑫(53)
- 基于特征迁移学习的综合能源系统小样本日前电力负荷预测
·····孙晓燕, 李家钊, 曾 博, 巩敦卫, 廉智勇(63)
- 航天机电伺服系统的自抗扰控制·····魏泽宇, 许文波, 张国林, 于 丹, 王贺龙(73)
- 传输时延环境下信息物理融合系统中恶意病毒传播的稳定性与分岔分析
·····王 璐, 肖 敏, 周 帅, 张跃中(81)
- 基于二重势函数法的集群航路规划·····陈天德, 黄炎焱, 李 琛(90)
- 分数阶多机器人的领航-跟随型环形编队控制·····伍锡如, 邢梦媛(103)
- 基于特征约简与选择性集成算法的城市固废焚烧过程二噁英排放浓度软测量
·····汤 健, 乔俊飞, 徐 喆, 郭子豪(110)
- 融入迁移限制与双层集合种群网络的传染病模型·····顾秋阳, 琚春华, 张双竹(121)
- 基于集成知识蒸馏的肺病分析·····李坚强, 王 成, 黄志超, 陈 杰(130)

短 文

- 基于等价输入干扰滑模观测器的磁悬浮球系统模型预测控制·····王军晓, 陈林杰, 俞 立(137)
- 一类机械臂系统自适应有限时间有界 H_∞ 跟踪控制·····李小华, 杨瑞芳, 刘 辉, 何 帅(147)
- 微型钻头端刃侧刃缺陷的全景式视觉检测技术·····崔旭东, 曹普信, 王平江(157)
- 基于累积平方误差-总平方波动指标的模型预测控制器性能评价及自愈·····张 浩, 赵 众(166)

CONTROL THEORY & APPLICATIONS

Vol. 38 No. 1 Jan. 2021

CONTENTS

Papers and Reports

- Filter design of networked nonlinear systems with adaptive event trigger XIANG Yun, LIN Chong, CHEN Bing (1)
- Neural network sliding mode control for vehicle inertially stabilized platform
..... JIA Tong, LI Xiu-zhi, ZHANG Xiang-yin (13)
- Model-free adaptive control of steady-state drift of unmanned vehicles
..... WANG Hong-bin, ZUO Jia-shuo, LIU Shi-da, ZHENG Wei, WANG Li (23)
- Adaptive force control of robotic finger actuated by shape memory alloy
..... LI Xiao-guang, ZHANG Bi, ZHANG Dao-hui, ZHAO Xin-gang, HAN Jian-da (33)
- Optimal control for heterogeneous phase transition temperature field of Czochralski monocrystalline silicon
..... ZHANG Jing, LIU Ding, DU Yan-jun (44)
- Indirect auto-regressive exogenous modeling of ship course-keeping motion
..... LU Qiu-zhu, WU Jun, CHEN Bai-jian, YANG Xin (53)
- Small-sample day-ahead power load forecasting of integrated energy system based on feature transfer learning
..... SUN Xiao-yan, LI Jia-zhao, ZENG Bo, GONG Dun-wei, LIAN Zhi-yong (63)
- Active disturbance rejection control of aerospace electromechanical servo system
..... WEI Ze-yu, XU Wen-bo, ZHANG Guo-lin, YU Dan, WANG He-long (73)
- Stability and bifurcation analysis of malicious virus spreading in cyber physical systems under transmission delays
..... WANG Lu, XIAO Min, ZHOU Shuai, ZHANG Yue-zhong (81)
- Cluster path planning based on double potential fields CHEN Tian-de, HUANG Yan-yan, LI Chen (90)
- Annular formation control of the leader-follower multi-robot based on fractional order WU Xi-ru, XING Meng-yuan (103)
- Soft measuring approach of dioxin emission concentration in municipal solid waste incineration process based on feature reduction and selective ensemble algorithm TANG Jian, QIAO Jun-fei, XU Zhe, GUO Zi-hao (110)
- An epidemic model integrated with migration restriction and bilayer metapopulation network
..... GU Qiu-yang, JU Chun-hua, ZHANG Shuang-zhu (121)
- Lung disease analysis using ensemble knowledge distillation
..... LI Jian-qiang, WANG Cheng, HUANG Zhi-chao, CHEN Jie (130)

Brief Papers

- Model predictive control for magnetic levitation ball system based on equivalent input disturbance sliding mode observer
..... WANG Jun-xiao, CHEN Lin-jie, YU Li (137)
- Adaptive finite-time bounded- H_∞ tracking control for a class of manipulator system
..... LI Xiao-hua, YANG Rui-fang, LIU Hui, HE Shuai (147)
- Panoramic visual inspection technology for defects of end edge and side edge of micro drill
..... CUI Xu-dong, CAO Pu-xin, WANG Ping-jiang (157)
- Integral squared error-total squared variation index based model predictive controller performance assessment and self-healing
..... ZHANG Hao, ZHAO Zhong (166)