

控制工程

Kong Zhi Gong Cheng

第24卷 第12期

2017年12月20日

目次

工业过程及控制系统

- 电流控制型Buck-Boost变换器的混沌控制·····贾美美, 张国山(2405)
- 基于 N 步不变集方法的切换系统饱和控制·····张亚婷, 闻继伟, 彭力(2412)
- 不确定区间时变时滞神经网络的鲁棒控制·····任欣元, 任伟建, 朱永波, 黄丽杰(2417)
- 基于光纤阵列和STM32的高精度太阳跟踪系统·····段欢, 黄惠兰, 李刚(2424)
- 一种用于混合储能系统的并网控制策略研究·····张建, 吴桂玲(2430)

安全监控系统

- 基于PCA的卷烟制丝过程监测与故障诊断·····王伟, 赵春晖(2435)
- 基于时间因果图的键合图故障诊断方法研究·····王俊年, 钱瞻, 陈茂林, 周兰, 王磊(2443)
- 基于EEMD和能量算子的风机轴承故障诊断·····齐咏生, 张二宁, 高胜利, 高学金, 王普(2450)
- 基于广域信息的次同步振荡传播分析研究·····祁鑫, 常富杰, 蒙金有, 钟海亮, 王莹莹, 李谦(2456)
- 抗功耗分析攻击的安全高效标量乘算法·····杨斌(2462)
- DCT结合模糊推理的鲁棒数字水印算法·····赵康, 刘帅, 张少辉(2466)

建模与仿真系统

- 一种基于随机森林的太阳能辐射预测模型·····刘剑, 曹美燕, 高治军, 许可(2472)

工业过程管理与决策系统

- 基于双边质量控制的生鲜农产品供应链决策·····闻卉, 陶建平, 曹晓刚, 黎继子(2478)
- 基于PCA与NARX的市政工程造价组合预测·····张晓东, 杨圣祥(2485)

决策与控制一体化系统

- 熔铸铝熔炼热效率优化控制策略研究·····梁涛, 和彦彦, 郭芳郁, 王睿(2491)
- 基于AIA的精铜板带生产原料选购优化·····常春光(2496)
- 基于免疫果蝇优化算法的PID控制参数优化·····宋娟, 李萍(2502)
- 油水混合油炸机的传热分析与节能优化·····张学进, 陈坤杰, 吴威, 康睿(2508)

运动体控制系统

- 伸缩因子优化交流伺服SVPWM控制算法研究·····马立新, 刘灏龙, 范洪成(2515)
- 刮板输送机双机变频驱动功率平衡控制研究·····毛君, 曹昊, 谢苗, 栾丽君, 袁智, 宋秋爽(2520)
- 基于滑模控制的AUV运动仿真系统·····王晓伟, 姚绪梁, 王峰, 孟令卫, 杨光仪(2526)

人工智能驱动的自动化

- 自适应压缩算法在电力负荷数据中的应用·····吴云, 徐冠男, 杨杰明, 鲍丽山(2534)
- 基于贝叶斯ELM的隐层节点数稀疏性研究·····吴永存(2539)
- 多任务非负字典学习的高光谱遥感图像去噪·····周霞, 卓志宏, 姚敏(2544)

工业互联网系统

- 间断连接无线网络中上行链路功率控制方法·····谢晓勇, 卢鑫, 郭森(2549)
- 基于优化信道均衡的移动通信网络预测控制·····潘锋(2554)
- 基于路由距离度量的WSN分层分簇路由协议·····张东升(2560)
- 基于网络安全的隔离措施分析·····邓蕴(2566)

期刊基本参数: CN21-1476/TP*1994*m*A4*166*zh*P*¥25.00**28*2017-12

CONTROL ENGINEERING
of CHINA

Vol. 24 12

(Monthly) Dec. 20 2017

CONTENTS

Chaos Control for the Current-controlled Buck-Boost Converter.....*JIA Mei-mei, et al* (2405)

Saturated Control of Switched Systems Based on *N*th-step Invariant Set.....*ZHANG Ya-ting, et al* (2412)

Robust Control for Uncertain Neural Networks with Interval Time-varying Delays.....*REN Xin-yuan, et al* (2417)

A High-precision Solar Tracking System Based on Fiber Array and STM32.....*DUAN Huan, et al* (2424)

A Novel Grid Inverter Control Strategy for Hybrid Load and Storage Systems.....*ZHANG Jian, et al* (2430)

Monitoring and Fault Diagnosis of Tobacco Primary Processing Using Principal Component Analysis
.....*WANG Wei, et al* (2435)

Research on Fault Diagnosis of Bond Graph Model Based on Temporal Causal Graph.....*WANG Jun-nian, et al* (2443)

Fault Diagnosis of Wind Turbine Rolling Bearings Based on EEMD and Energy Operator Demodulation
.....*QI Yong-sheng, et al* (2450)

Research on Sub-synchronous Oscillation Spread Analysis Based on Wide Area Information.....*QI Xin, et al* (2456)

Secure and Efficient Scalar Multiplication Algorithm with Power Analysis Attack Resistance.....*YANG Bin* (2462)

A Robust Digital Image Watermarking Algorithm Based on FIS and DCT.....*ZHAO Kang, et al* (2466)

A Solar Radiation Prediction Model Based on Radom Forest.....*LIU Jian, et al* (2472)

Fresh Agricultural Supply Chain Decision Based on Bilateral Quality Control.....*WEN Hui, et al* (2478)

Forecasting the Cost of Municipal Engineering Based on PCA and NARX.....*ZHANG Xiao-dong, et al* (2485)

Optimal Control Strategy for Thermal Efficiency of Casting Aluminum Smelting.....*LIANG Tao, et al* (2491)

Optimization of Raw Materials Selective Purchasing for Refined Copper Strip Producing by AIA
.....*CHANG Chun-guang* (2496)

PID Control Parameter Optimization Based on an Immune Fruit Fly Optimization Algorithm...*SONG Juan, et al* (2502)

Analysis for Thermal Conductivity and Saving Optimization of Oil-water Mixture Frying Machines
.....*ZHANG Xue-jin, et al* (2508)

Study on Optimization of AC-servo SVPWM Control Based on Flex Factors.....*MA Li-xin, et al* (2515)

Research of Power Balance Control for Double-motor Frequency-conversion Drive of Scraper Conveyors
.....*MAO Jun, et al* (2520)

An AUV Motion Simulation System Based on Sliding Mode Control.....*WANG Xiao-wei, et al* (2526)

Application of Adaptive Compression Algorithm in Power Load Data.....*WU Yun, et al* (2534)

Sparsity of Hidden Layer Nodes Based on Bayesian Extreme Learning Machine.....*WU Yong-cun* (2539)

Hyperspectral Remote Image Denoising Based on Multitask Nonnegative Dictionary Learning
.....*ZHOU Xia, et al* (2544)

Uplink Power Control in Discontinuous Connected Wireless Network.....*XIE Xiao-yong, et al* (2549)

Predictive Control of Mobile Communication Networks Based on Optimized Channel Equalization
.....*PAN Feng* (2554)

A Hierarchical Clustering Routing Protocol Based on Routing Distance Measure for Wireless Sensor Networks
.....*ZHANG Dong-sheng* (2560)

Analysis of Isolation Approaches for Network Security.....*DENG Yun* (2566)

Serial parameters: CN21-1476/TP*1994*m*A4*166*zh*P*¥25.00* *28*2017-12