



ISSN 1000-8152
CODEN KLYYEB

控制理论 与应用

Control Theory & Applications

第 29 卷

第 12 期

2012 年 12 月

Vol. 29

No. 12

Dec. 2012

华南理工大学

中国科学院数学与系统科学研究院

主办

控制理论与应用

第29卷 第12期 (卷终) 2012年12月

目次

综述与评论

微小故障诊断方法综述.....李娟,周东华,司小胜,陈茂银,徐春红(1517)

论文与报告

基于线性二次型高斯基准的多变量预测控制技术经济性能评估.....刘 蓍,苏宏业,谢 磊,古 勇(1530)
多光点位置实时检测系统及其应用(英文).....余祖俊,王 尧,朱力强,郭保青(1537)
涡扇发动机气路健康的简约卡尔曼滤波估计.....鲁 峰,黄金泉(1543)
求解不相关并行机混合流水线调度问题的人工蜂群算法.....王 凌,周 刚,许 烨,王圣尧(1551)
结合非线性频谱与核主元分析的复杂系统故障诊断方法.....张家良,曹建福,高 峰,韩海涛(1558)
竖炉焙烧过程运行优化控制系统的开发及实验研究.....周 平,代 伟,柴天佑(1565)
1000MW超超临界机组的多变量约束预测控制的研究.....王国良,阎威武,陈世和,张 曦,邵惠鹤(1573)
基于进化信度规则库的故障预测(英文).....司小胜,胡昌华,张 琪,李 娟(1579)
一类多项式非线性系统鲁棒 H_∞ 控制.....黄文超,孙洪飞,曾建平(1587)
永磁同步电机非线性观测器设计及内核验证.....祝晓辉,李颖晖,孙国强(1594)
船舶混沌运动的周期脉冲参数微扰控制.....黄 谦,李天伟,杨绍清,李正友(1603)
执行器有时滞的馈能式主动悬架的鲁棒控制.....王 鹏,宋鹏云,张继业,张克跃(1609)

短 文

改进的数据驱动子空间算法求解钢铁企业能源预测问题.....张颜颜,唐立新(1616)
移动机器人路径规划强化学习的初始化.....宋 勇,李贻斌,李彩虹(1623)
一类齐次离散双线性系统可控性分析.....沈进中,邓留保(1629)
一类非线性系统的加速度规划输出跟踪动态控制.....谢文博,付明玉,施小成(1633)
锂离子电池荷电状态估计:非线性观测器方法.....张 云,张承慧,崔纳新(1639)
传感器网络一致性分布式滤波算法.....王长城,戚国庆,李银伢,盛安冬(1645)
带有内动态的离散不确定非线性系统的滑模预测跟踪控制(英文).....张利军,赵杰梅,齐 雪(1651)
加权多模型自适应控制的稳定性.....张维存(1657)
具有扇形执行器的多机电力系统气门开度的时滞无关镇定(英文).....孙妙平,年晓红,潘 欢(1661)

* * * *

2012年总目录.....(I)

CONTROL THEORY & APPLICATIONS

Vol. 29 No. 12 Dec. 2012

CONTENTS

Survey and Reviews

Review of incipient fault diagnosis methods

..... LI Juan, ZHOU Dong-hua, SI Xiao-sheng, CHEN Mao-yin, XU Chun-hong (1517)

Papers and Reports

Economic performance assessment of multivariable model predictive control based on linear quadratic Gaussian benchmark

..... LIU Zhe, SU Hong-ye, XIE Lei, GU Yong (1530)

Real-time measurement system for central positions of multiple light spots and its application

..... YU Zu-jun, WANG Yao, ZHU Li-qiang, GUO Bao-qing (1537)

Contracted Kalman filter estimation for turbofan engine gas-path health LU Feng, HUANG Jin-quan (1543)

An artificial bee colony algorithm for solving hybrid flow-shop scheduling problem with unrelated parallel machines

..... WANG Ling, ZHOU Gang, XU Ye, WANG Sheng-yao (1551)

Fault diagnosis of complex system based on nonlinear spectrum and kernel principal component analysis

..... ZHANG Jia-liang, CAO Jian-fu, GAO Feng, HAN Hai-tao (1558)

Exploration of operational optimization control system for shaft furnace roasting process and its experiment study

..... ZHOU Ping, DAI Wei, CHAI Tian-You (1565)

Multivariable constrained predictive control of 1000 MW ultra supercritical once-through boiler-turbine system

..... WANG Guo-liang, YAN Wei-wu, CHEN Shi-he, ZHANG Xi, SHAO Hui-he (1573)

Fault prognosis based on evolving belief-rule-base system SI Xiao-sheng, HU Chang-hua, ZHANG Qi, LI Juan (1579)

Robust H-infinity control for a class of polynomial nonlinear systems

..... HUANG Wen-chao, SUN Hong-fei, ZENG Jian-ping (1587)

Nonlinear observer design for permanent magnet synchronous motor and verification of the algorithm kernel

..... ZHU Xiao-hui, LI Ying-hui, SUN Guo-qiang (1594)

Periodic impulsive parameter perturbations control for chaotic ship steering

..... HUANG Qian, LI Tian-wei, YANG Shao-qing, LI Zheng-you (1603)

Robust control for self-powered active suspension with time-delay in actuator

..... WANG Peng, SONG Peng-yun, ZHANG Ji-ye, ZHANG Ke-yue (1609)

Brief Papers

Improved data-driven subspace algorithm for energy prediction in iron and steel industry

..... ZHANG Yan-yan, TANG Li-xin (1616)

Initialization in reinforcement learning for mobile robots path planning SONG Yong, LI Yi-bin, LI Cai-hong (1623)

Controllability of a class of homogeneous discrete-time bilinear systems SHEN Jin-zhong, DENG Liu-bao (1629)

Output tracking control with acceleration assignment for a class of nonlinear systems

..... XIE Wen-bo, FU Ming-yu, SHI Xiao-cheng (1633)

Estimation of state-of-charge of lithium-ion battery: nonlinear observer method

..... ZHANG Yun, ZHANG Cheng-hui, CUI Na-xin (1639)

Consensus-based distributed filtering algorithm in sensor networks

..... WANG Chang-cheng, QI Guo-qing, LI Yin-ya, SHENG An-dong (1645)

Sliding-mode prediction tracking control for discrete-time uncertain nonlinear systems with internal dynamics

..... ZHANG Li-jun, ZHAO Jie-mei, QI Xue (1651)

Stability of weighted multiple model adaptive control ZHANG Wei-cun (1657)

Delay-independent stabilization for steam valve opening of multi-machine power system with sector actuator

..... SUN Miao-ping, NIAN Xiao-hong, PAN Huan (1661)