



ISSN 1000-8152
CODEN KLYYEB

控制理论 与应用

Control Theory & Applications

第 30 卷

第 4 期

2013 年 4 月

Vol. 30

No. 4

Apr. 2013

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 30 卷 第 4 期 2013 年 4 月

目 次

论文与报告

控制增益未知的多变量极值搜索系统神经网络自适应协同控制 左 斌, 李 静(405)

考虑推力器安装偏差的航天器姿态机动有限时间控制 胡庆雷, 李 波, 张爱华, 张振霞(417)

基于变迁覆盖的制造系统死锁控制策略 刘慧霞, 邢科义, 康苗苗(425)

过驱动飞行器线性参变鲁棒预测跟踪控制策略 陈 勇, 董新民, 薛建平, 郭 创(432)

欠驱动水下航行器三维直线航迹跟踪控制 王宏健, 陈子印, 边信黔, 贾鹤鸣, 李 娟(443)

开架水下机器人生物启发离散轨迹跟踪控制 孙 兵, 朱大奇, 邓志刚(454)

基于模糊树模型的非线性系统内模控制 张 伟, 毛剑琴(463)

具有时变时滞和多包丢失的网络控制系统量化 H_{∞} 控制 严怀成, 苏阵阵, 张 皓, 杨富文(469)

具有未建模动态的自适应神经网络动态面控制 张天平, 施梹铖, 沈启坤, 鲁 瑶(475)

递推局部线性回归估计及其应用 陈性敏, 高 超(482)

基于泡沫大小动态分布的浮选生产过程加药量健康状态分析 刘金平, 桂卫华, 唐朝晖, 朱建勇(492)

多通道网络化系统跟踪性能极限 詹习生, 关治洪, 吴 杰, 张先鹤, 吴 博(503)

不完全量测下估计误差协方差与传感器精度上-下确界的关系 胡振涛, 李 松, 刘先省, 李 捷(508)

短 文

离散多智能体系统信息一致性的平衡点 李俊兵, 严卫生, 房新鹏(513)

鲁棒自适应滑模虚拟执行器设计 付明玉, 宁继鹏, 魏玉石, 孙行衍(520)

离轴式拖车移动机器人的任意路径跟踪控制 刘 昱, 马保离(526)

分数阶系统线性矩阵不等式稳定判据的改进与鲁棒镇定: $0 < \alpha < 1$ 的情况 ... 梁 舒, 彭 程, 王 永(531)

* * * *

《控制理论与应用》征稿简则 (536)

CONTROL THEORY & APPLICATIONS

Vol. 30 No. 4 Apr. 2013

CONTENTS

Papers and Reports

Neural network adaptive synergetic control for multivariable extremum seeking system with unknown control gain ZUO Bin, LI Jing (405)

Finite-time attitude maneuver control of spacecraft under control saturation and misalignment HU Qing-lei, LI Bo, ZHANG Ai-hua, ZHANG Zhen-xia (417)

Transition cover-based deadlock control policies for manufacturing systems LIU Hui-xia, XING Ke-yi, KANG Miao-miao (425)

Robust linear parameter-varying predictive tracking control scheme for over-actuated vehicle CHEN Yong, DONG Xin-min, XUE Jian-ping, GUO Chuang (432)

Three-dimensional straight line path-tracking control for underactuated underwater vehicle WANG Hong-jian, CHEN Zi-yin, BIAN Xin-qian, JIA He-ming, LI Juan (443)

Bio-inspired discrete trajectory-tracking control for open-frame underwater vehicles SUN Bing, ZHU Da-qi, DENG Zhi-gang (454)

Internal model control for nonlinear system based on fuzzy-tree method ZHANG Wei, MAO Jian-qin (463)

Quantized H-infinity control for networked control systems with time-varying delay and multiple packet dropouts YAN Huai-cheng, SU Zhen-zhen, ZHANG Hao, YANG Fu-wen (469)

Adaptive neural-network dynamic surface-control with unmodeled dynamics ZHANG Tian-ping, SHI Xiao-cheng, SHEN Qi-kun, LU Yao (475)

Recursive local linear regression estimation and its applications CHEN Xing-min, GAO Chao (482)

Dynamic bubble-size-distribution-based health status analysis of reagent-addition in froth flotation process LIU Jin-ping, GUI Wei-hua, TANG Zhao-hui, ZHU Jian-yong (492)

Tracking performance limitation of multi-channel networked systems ZHAN Xi-sheng, GUAN Zhi-hong, WU Jie, ZHANG Xian-he, WU Bo (503)

Infimum-supremum of sensor accuracy versus estimation error covariance in intermittent observations HU Zhen-tao, LI Song, LIU Xian-xing, LI Jie (508)

Brief Papers

Equilibrium of consensus problems for discrete-time multi-agent systems LI Jun-bing, YAN Wei-sheng, FANG Xin-peng (513)

Design of virtual actuator with robust adaptive sliding-mode FU Ming-yu, NING Ji-peng, WEI Yu-shi, SUN Xing-yan (520)

Arbitrary path following control of off-axle tractor-trailer mobile robot LIU Yu, MA Bao-li (526)

Improved linear matrix inequalities stability criteria for fractional order systems and robust stabilization synthesis: The $0 < \alpha < 1$ case LIANG Shu, PENG Cheng, WANG Yong (531)