

# 控制理论与应用

第27卷 第8期 2010年8月

## 目次

### 论文

- 动态矩阵主动队列管理算法 ..... 王萍, 陈虹, 杨晓萍(971)
- 采样数据系统最优诊断观测器设计 ..... 邱爱兵, 文成林, 姜斌(979)
- 具有随机长时延的网络控制系统保性能控制 ..... 俞立, 吴玉书, 宋洪波(985)
- 自治飞艇动力学建模及反馈控制 ..... 刘屿, 郭依林, 胡跃明(991)
- 小型无人机地面目标跟踪系统机载云台自适应跟踪控制 ..... 辛哲奎, 方勇纯, 张雪波(1001)
- 基于免疫文化算法的特钢加热炉调度优化 ..... 孙学刚, 俞超, 安振刚(1007)
- 改进的多模型粒子滤波机动目标跟踪算法 ..... 鉴福升, 徐跃民, 阴泽杰(1012)
- 噪声未知的LQG控制问题研究 ..... 钱富才, 朱少平, 刘丁(1017)
- 网络化运动控制系统的动态带宽分配策略 ..... 赵维佳, 李迪(1023)
- 双参考点切换的多移动机器人队形运动控制方法 ..... 沈捷, 费树岷, 张兴华, 林锦国(1030)
- 悬臂式掘进机器人截割臂建模与二阶滑模控制器设计 ..... 凌睿, 柴毅(1037)
- 矩阵变换器输入电流的无源性控制 ..... 王孝洪, 杨金明, 潘晓明, 刘文明(1047)
- 二阶控制论及其应用 ..... 万百五(1053)

### 短文

- 动态环境中的Memetic算法 ..... 王洪峰, 汪定伟, 黄敏(1060)
- 空间电磁对接控制问题 ..... 张元文, 杨乐平(1069)
- 免疫标准化正规化约束方法及其应用 ..... 李勇, 刘建昌, 王昱(1075)
- 一类非线性不确定系统的自适应鲁棒控制 ..... 郭健, 陈庆伟, 吴益飞, 姚斌(1081)
- Swarm突现行为的定量评估指标 ..... 吴渝, 周凯, 李银国(1086)
- 一类有限时间切换系统的最优控制问题 ..... 于瑞林, 郭磊(1093)
- 不平衡电网中三相脉冲宽整流器的控制 ..... 康忠健, 陈天立, 瞿淑伟, 王升花, 刘星, 王平(1097)
- 无穷网络流的顶点控制 ..... 郑福, 白乙拉, 朱广田(1103)
- 具有通信时延的离散时间二阶多个体网络的一致性问题 ..... 刘德进, 刘成林(1108)
- 具有零动态的SISO仿射非线性系统的神经网络自适应跟踪控制 ..... 郭鹏, 胡慧, 刘国荣, 刘洞波(1113)
- 分数阶系统频域辨识算法 ..... 李旺, 张国庆, 王永(1118)

\* \* \* \*

下期要目 ..... (1074)

刊例基本参数: CN44-1240/TP\*1984\*b\*A4\*152\*zh\*P\*¥15.00\*1650\*24\*2010-08

# CONTROL THEORY & APPLICATIONS

Vol. 27 No. 8 Aug. 2010

## CONTENTS

### Papers and Reports

- Active queue management algorithm with dynamic matrix control ..... WANG Ping, CHEN Hong, YANG Xiao-ping(971)
- Optimal diagnostic observer for sampled-data systems ..... QIU Ai-bing, WEN Cheng-lin, JIANG Bin(979)
- Guaranteed cost control for networked control systems with random long time-delays  
..... YU Li, WU Yu-shu, SONG Hong-bo(985)
- Autonomous dynamics-modeling and feedback control for an airship ..... LIU Yu, WU Yi-lin, HU Yue-ming(991)
- Adaptive control for the on-board pan-tilt camera in an UAV ground-target-tracking system  
..... XIN Zhe-kui, FANG Yong-chun, ZHANG Xue-bo(1001)
- Optimization of scheduling for special steel reheat furnace based on immune-culture algorithm  
..... SUN Xue-gang, YUN Chao, AN Zhen-gang(1007)
- Enhanced multimodal particle filter for maneuvering target-tracking ..... JIAN Fu-sheng, XU Yue-min, YIN Ze-jie(1012)
- On LQG problems with unknown noises ..... QIAN Fu-cai, ZHU Shao-ping, LIU Ding(1017)
- Dynamic bandwidth-allocation for networked motion control systems ..... ZHAO Wei-quan, LI Di(1023)
- Formation motion control for multiple mobile robots based on switching control between two reference points  
..... SHEN Jie, FEI Shu-min, ZHANG Xing-hua, LIN Jin-guo(1030)
- Dynamic modeling and design of second-order sliding-mode controller for arm of roadheader robot  
..... LING Rui, CHAI Yi(1037)
- Passivity-based control for current of input side in matrix convertor  
..... WANG Xiao-hong, YANG Jin-ming, PAN Xiao-ming, LIU Wen-ming(1047)
- Second-order Cybernetics and its applications ..... WAN Bai-wu(1053)

### Brief Papers

- Memetic algorithms in dynamic environments ..... WANG Hong-feng, WANG Ding-wei, HUANG Min(1060)
- The control of spatial electromagnetic docking ..... ZHANG Yuan-wen, YANG Le-ping(1069)
- Immune normalized-normal-constraint method and its application ..... LI Yong, LIU Jian-chang, WANG Yu(1075)
- Adaptive robust control for a class of uncertain nonlinear system ... GUO Jian, CHEN Qing-wei, WU Yi-fei, YAO Bin(1081)
- The evaluation metrics for Swarm emergent behaviors ..... WU Yu, ZHOU Kai, LI Yin-guo(1086)
- Optimal control of a class of deterministic switched systems ..... YU Rui-lin, GUO Lei(1093)
- Control scheme for three-phase pulse-width-modulation rectifier under unbalanced grid conditions  
..... KANG Zhong-jian, CHEN Tian-li, ZI Shu-wei, WANG Sheng-hua, LIU Xing, WANG Ping(1097)
- Vertex control of flows in infinite networks ..... ZHENG Fu, BAI Yi-la, ZHU Guang-tian(1103)
- Consensus problem of discrete-time second-order multi-agent network with time-delay in communication  
..... LIU De-jin, LIU Cheng-lin(1108)
- Adaptive neural-network tracking control for SISO affine nonlinear systems with zero-dynamics  
..... GUO Peng, HU Hui, LIU Guo-rong, LIU Dong-bo(1113)
- Frequency domain identification of fractional order systems ..... LI Wang, ZHANG Guo-qing, WANG Yong(1118)