

# 控制理论与应用

第27卷 第4期 2010年4月

## 目次

### 论 文

- 置换表示方法求解多卫星多地面站调度问题.....靳肖闪,李军,王钧,景宁(407)
- 具有随机丢包的关联系统的分散控制.....李晖,伍清河(415)
- 地球卫星自主天文导航滤波方法性能分析.....宁晓琳,马辛(423)
- 一类具有漂移、扩散及停时的奇异型随机控制.....于洋,王秋媛,赵生变(431)
- 一种两轮轮式机器人点镇定智能控制实现.....王牛,李祖枢(437)
- 一种自组织混合模型在汇率波动性预测中的应用.....倪禾(444)
- 改进的吸引扩散微粒群算法.....陈保娣,曾建潮(451)
- 环境实验室热工系统规则自提取模糊控制仿真.....张吉礼,赵天怡,卢振,刘辉(457)
- 非线性系统模糊神经网络控制的改进策略.....赵俊,陈建军(466)
- 字典序进化算法用于组合优化问题.....肖赤心,蔡自兴,王勇(473)
- 基于微分同胚变换的故障重构算法.....何静,邱静,张昌凡(481)
- 基于视觉的移动机器人同时定位与建图研究进展.....孙凤池,黄亚楼,康叶伟(488)

### 短 文

- 约束非线性系统切换鲁棒预测控制.....赵敏,李少远(495)
- 遗传算法在模糊设计中的应用.....谭建豪,章兢(501)
- 基于改进多目标差分进化算法的诺西肽发酵过程优化.....牛大鹏,王福利,何大阔,贾明兴(505)
- 基于微粒群和满足质量约束的组炉方案优化方法.....王万雷,杨静萍,薄洪光(509)
- 水下拖曳升沉补偿系统的非参数模型自适应控制.....王海波,王庆丰(513)
- 基于时滞的 $H_{\infty}$ 滤波器设计及其在网络中的应用.....扶凌云,何勇,吴敏(517)
- 基于目标函数的模糊模型一体化建模.....王宏伟,于双和(523)
- 带有状态和输入时滞的不确定广义系统的鲁棒预测控制.....刘晓华,王利杰(527)
- 反正切形式跟踪微分器设计及相平面分析.....董小萌,张平(533)
- 脉宽调制低压气动伺服系统抖动研究.....聂聆聪,姚晓先(538)

\* \* \* \*

下期要目.....(542)

期刊基本参数: CN44-1240/TP\*1984\*b\*A4\*136\*zh\*P\*¥15.00\*1650\*22\*2010-04

# CONTROL THEORY & APPLICATIONS

Vol. 27 No. 4 Apr. 2010

## CONTENTS

### Papers and Reports

- On permutation-based integrated scheduling for earth observing system  
..... JIN Xiao-shan, LI Jun, WANG Jun, JING Ning (407)
- Decentralized control of interconnected systems with random communication packet dropout  
..... LI Hui, WU Qing-he (415)
- Analysis of filtering methods for satellite celestial navigation ..... NING Xiao-lin, MA Xin (423)
- Problems of singular stochastic control with stopping, drift and diffusion  
..... YU Yang, WANG Qiu-yuan, ZHAO Sheng-bian (431)
- Realization of point stabilization intelligence control for two-wheel robot ..... WANG Niu, LI Zu-shu (437)
- Exchange rate volatility prediction by an extended self-organizing mixture model ..... NI He (444)
- Modified attractive and repulsive particle swarm optimization ..... CHEN Bao-di, ZENG Jian-chao (451)
- Self-abstracting-rule fuzzy control simulation of a real environment chamber system  
..... ZHANG Ji-li, ZHAO Tian-yi, LU Zhen, LIU Hui (457)
- Improving strategies on fuzzy neural network control for nonlinear object  
..... ZHAO Jun, CHEN Jian-jun (466)
- Evolutionary strategy of lexicographic order for combinational problem  
..... XIAO Chi-Xin, CAI Zi-xing, WANG Yong (473)
- Fault reconstruction based on global diffeomorphic coordination transformation  
..... HE Jing, QIU Jing, ZHANG Chang-fan (481)
- Review on the achievements in simultaneous localization and mapping for mobile robot based on vision sensor  
..... SUN Feng-chi, HUANG Ya-lou, KANG Ye-wei (488)

### Brief Papers

- Switching robust model-predictive-control strategy for constrained nonlinear system  
..... ZHAO Min, LI Shao-yuan (495)
- Application of genetic algorithms in fuzzy design ..... TAN Jian-hao, ZHANG Jing (501)
- Optimization of nosiheptide fermentation process based on the improved differential evolution algorithm for multi-objective optimization ..... NIU Da-peng, WANF Fu-li, HE Da-kuo, JIA Ming-xing (505)
- Optimization of charge design with quality constraints based on particle swarm optimization  
..... WANG Wan-lei, YANG Jing-ping, BO Hong-guang (509)
- Nonparametric model adaptive control for underwater towed heave compensation system  
..... WANG Hai-bo, WANG Qing-feng (513)
- H-infinity filter design based on time-delay and its application to network  
..... FU Ling-yun, HE Yong, WU Min (517)
- An integrated modeling algorithm of fuzzy model using objective function ..... WANG Hong-wei, YU Shuang-he (523)
- Robust predictive control of uncertain singular systems with both state and input delays  
..... LIU Xiao-hua, WANG Li-jie (527)
- Design and phase plane analysis of an arctangent-based tracking differentiator  
..... DONG Xiao-meng, ZHANG Ping (533)
- On the dither of a pulse-width-modulation low-pressure pneumatic servo system  
..... NIE Ling-cong, YAO Xiao-xian (538)