

第 34 卷 第 4 期 2017 年 4 月
Vol. 34 No. 4 Apr. 2017

ISSN 1000-8152
CODEN KLYYEB

控制理论与应用

Control Theory & Applications



万方数据

主办 华南理工大学
中国科学院数学与系统科学研究院

控制理论与应用

第34卷 第4期 2017年4月

目次

论文与报告

- 多源扰动下光电跟踪系统连续非奇异终端滑模控制 冒建亮, 李奇, 朱海荣 (413)
- 基于滚动时域优化的轮式移动机器人路径跟踪问题研究(英文)
..... 刘洋, 于树友, 郭洋, 高炳钊, 陈虹 (424)
- 离散多平衡点正切换系统有限区间稳定与镇定 刘志, 张宪福, 王玉振 (433)
- 匹配条件不满足时线性系统未知输入观测器设计 张建成, 朱芳来 (441)
- 含多正弦扰动的航天器无拖曳控制系统性能极限研究 邹奎, 苟兴宇, 范达 (449)
- k 轨道任务分配问题的可解性条件: 图论方法(英文) 岳菊梅, 陈增强, 闫永义, 金鑫 (457)
- 针对延迟容忍用户的智能电网需求响应 董齐芬, 俞立, 宋文战, 洪榛 (467)
- 针对气动肌肉仿生肘关节抖振现象的Kalman-PID控制 杨辉, 郝丽娜, 陈洋, 薛帮灿 (477)
- 自适应广义滑模观测器之状态估计和故障重构 穆凌霞, 余翔, 李平, 王新民 (483)
- 装配线物料搬运的拉格朗日松弛算法 周炳海, 胡理嫚 (491)
- 油藏注水开发低阶模型及最优控制仿真研究 徐明海, 孙宪航, 巩亮, 贾欣鑫, 王政, 李会明 (499)
- 自抗扰控制和高频信号注入的内嵌式永磁同步电机无位置传感器控制 孙佃升, 章跃进 (508)
- 基于滤波反步法的三相永磁同步电机伺服控制 陈子印, 林喆, 康建兵, 贾鹤鸣, 于飞 (515)
- 对称离散事件系统事件重标记观测器性质研究 焦亭, 甘永梅, 肖国春, WONHAM W M (525)
- 考虑发动机排气背压阈值的柴电混合动力汽车最优控制 隗寒冰, 刘小飞, 彭志远 (533)

短文

- 基于集员估计的室内移动机器人多传感器融合定位 周波, 钱堃, 马旭东, 戴先中 (541)
- 基于干扰观测器的一类奇异系统 H_∞ 控制 蔡壮, 张国良, 宋海涛, 田琦 (551)

CONTROL THEORY & APPLICATIONS

Vol. 34 No. 4 Apr. 2017

CONTENTS

Papers and Reports

- Continuous nonsingular terminal sliding mode control of optical-electronic tracking system subject to multiple disturbances
..... MAO Jian-liang, LI Qi, ZHU Hai-rong (413)
- Receding horizon control for path following problems of wheeled mobile robots
..... LIU Yang, YU Shu-you, GUO Yang, GAO Bing-zhao, CHEN Hong (424)
- Stability and stabilization for discrete-time positive switched multiple equilibria systems on finite time intervals
..... LIU Zhi, ZHANG Xian-fu, WANG Yu-zhen (433)
- Linear system unknown input observer design when the observer matching condition is not satisfied
..... ZHANG Jian-cheng, ZHU Fang-lai (441)
- Performance limitations for spacecraft drag-free control system in the presence of multi-sinusoidal disturbance
..... ZOU Kui, GOU Xing-yu, FAN Da (449)
- Solvability of k -track assignment problem: a graph approach
..... YUE Ju-mei, CHEN Zeng-qiang, YAN Yong-yi, JIN Xin (457)
- Demand response for delay tolerant consumers in smart grid
..... DONG Qi-fen, YU Li, SONG Wen-zhan, HONG Zhen (467)
- Kalman-PID control for chattering phenomena of bionic elbow joint actuated by pneumatic artificial muscles
..... YANG Hui, HAO Li-na, CHEN Yang, XUE Bang-can (477)
- State estimation and fault reconstruction from an adaptive descriptor sliding mode observer
..... MU Ling-xia, YU Xiang, LI Ping, WANG Xin-min (483)
- Lagrangian relaxation algorithm for material handling problems of assembly lines
..... ZHOU Bing-hai, HU Li-man (491)
- Simulation study on reduced-order model and optimal control of water flooding reservoir
..... XU Ming-hai, SUN Xian-hang, GONG Liang, JIA Xin-xin, WANG Zheng, LI Hui-ming (499)
- Sensorless control for interior permanent magnet synchronous motor based on active disturbance rejection control and high frequency signal injection technique
..... SUN Dian-sheng, ZHANG Yue-jin (508)
- Servo control of three-phase permanent magnet synchronous motor based on command filtered backstepping
..... CHEN Zi-yin, LIN Zhe, KANG Jian-bing, JIA He-ming, YU Fei (515)
- Study on relabeling observer property in symmetric discrete-event systems
..... JIAO Ting, GAN Yong-mei, XIAO Guo-chun, WONHAM W M (525)
- The optimal control of plug-in diesel hybrid electric vehicle with considering the threshold of exhaust back pressure
..... WEI Han-bing, LIU Xiao-fei, PENG Zhi-yuan (533)

Brief Papers

- Multi-sensor fusion for mobile robot indoor localization based on a set-membership estimator
..... ZHOU Bo, QIAN Kun, MA Xu-dong, DAI Xian-zhong (541)
- H-infinity control for a class of singular systems via disturbance observer based control method
..... CAI Zhuang, ZHANG Guo-liang, SONG Hai-tao, TIAN Qi (551)