

控制理论与应用

第38卷 第7期 2021年7月

目次

“集群智能与协同控制”专刊

前 言	(873)
从集群智能角度分析协同驾驶: 综述和展望	郭宇晴, 姚丹亚, 张 毅, 裴 欣, 李 力, 李志恒 (875)
通信拓扑切换下车辆队列分布式模型预测控制	罗 捷, 鲁良叶, 何德峰, 俞 立, 杜海平 (887)
孤岛交流微网群中各微电网分布式有功-电压调控策略	张 博, 窦春霞, 岳 东, 张占强, 张腾飞 (897)
多无人水面艇协同海上溢油羽流监测	王俊伟, 姚余磊 (913)
基于super-twisting算法的多航天器姿态有限时间分布式协同控制	许 淼, 方一鸣, 李建雄, 赵晓东 (924)
感知范围受限的群机器人自主围捕算法	罗家祥, 许博喆, 刘海明, 蔡 鹤, 高焕丽, 姚瞻楠 (933)
改进交替方向乘子法求解冷水机组负荷分配群智能优化问题	于军琪, 陈时羽, 赵安军, 冯增喜, 高之坤 (947)
测量受限线性多智能体系统一致性迭代学习控制	魏永东, 李宗刚, 杜亚江, 陈引娟 (963)
多运动目标的多无人机协同搜索追踪策略	王洪民, 田家强, 韦凌云, 庄育锋 (971)
环形直流微电网的二次控制与稳定性分析	刘骁康, 王燕舞, 肖江文 (979)
基于车辆与车辆的车联网分布式协同感知定位	谯小康, 屈小媚 (988)
基于Q-learning的离散时间多智能体系统一致性	朱志斌, 王付永, 尹艳辉, 刘忠信, 陈增强 (997)
改进蚁群算法水面无人艇平滑路径规划	敖邦乾, 杨 莎, 叶振环 (1006)
二阶非线性多智能体系统有限时间分布式优化	娄如思, 王璐瑶, 马 丹 (1015)
多伺服电机智能化协调容错轨迹跟踪控制系统设计	朱俊威, 顾曹源, 王 鼎, 张文安, 王 鑫 (1023)
内外不确定因素同时估计与补偿的鲁棒分布式跟踪控制	张 特, 李世尧, 朱 波 (1033)
利用方位角信息的移动机器人编队控制	谭 瑶, 梅 杰 (1043)
储能汇聚参与辅助调频服务的协同优化算法	曾 君, 胡家健, 徐铭康, 潘志伟, 刘俊峰 (1051)
考虑风电和储能接入电网的多目标协同博弈区间经济调度	黄 颀, 杨 鑫, 高 林, 张 聪, 陈皓勇 (1061)
面向网络攻击下弹性均值趋同的智能体群组编队	王刚阳, 徐 明, 伍益明, 胡沁伶, 郑 宁 (1071)
带有完全分布式观测器的多智能体系统自适应容错一致性	尹艳辉, 王付永, 刘忠信, 陈增强 (1082)
通讯受限条件下的机器人编队算法	罗家祥, 关振峰, 刘海明, 蔡 鹤, 高焕丽, 黄 杰 (1091)
非线性多智能体磁滞系统的分布式输出反馈渐近一致控制	刘 烨, 杨朋举, 张 绪 (1102)
事件触发策略下多AUV抗干扰固定时间编队控制	苏 博, 王洪斌, 高 静 (1113)
单路径引导的车式移动机器人协同编队控制	王常顺, 王 丹, 彭周华 (1124)

CONTROL THEORY & APPLICATIONS

Vol. 38 No. 7 Jul. 2021

CONTENTS

Special Issue on Swarm Intelligence and Cooperative Control

Preface.....	(873)
Analysis of cooperative driving from the perspective of swarm intelligence: overview and outlook GUO Yu-qing, YAO Dan-ya, ZHANG Yi, PEI Xin, LI Li, LI Zhi-heng	(875)
Distributed model predictive control of vehicle platoons with switching communication topologies LUO Jie, LU Liang-ye, HE De-feng, YU Li, DU Hai-ping	(887)
Distributed active power-voltage regulation strategy for microgrids in islanded AC microgrid cluster ZHANG Bo, DOU Chun-xia, YUE Dong, ZHANG Zhan-qiang, ZHANG Teng-fei	(897)
Cooperative oil spill plume monitoring by multiple unmanned surface vehicles.....	WANG Jun-wei, YAO Yu-lei (913)
Finite time distributed coordinated control for attitude of multi-spacecraft based on super-twisting algorithm XU Miao, FANG Yi-ming, LI Jian-xiong, ZHAO Xiao-dong	(924)
Autonomous hunting algorithm for swarm robots subject to limited sensing range LUO Jia-xiang, XU Bo-zhe, LIU Hai-ming, CAI He, GAO Huan-li, YAO Zhan-nan	(933)
Improved alternating direction method of multipliers for solving optimal chiller loading problem in swarm intelligent control system YU Jun-qi, CHEN Shi-yu, ZHAO An-jun, FENG Zeng-xi, GAO Zhi-kun	(947)
Iterative learning control for consensus of measurement-constrained linear multi-agent systems WEI Yong-dong, LI Zong-gang, DU Ya-jiang, CHEN Yin-juan	(963)
Multi-unmanned aerial vehicles cooperative searching and tracking strategy for multiple moving targets WANG Hong-min, TIAN Jia-qiang, WEI Ling-yun, ZHUANG Yu-feng	(971)
Secondary control and stability analysis of ring-bus DC microgrids LIU Xiao-kang, WANG Yan-wu, XIAO Jiang-wen	(979)
Vehicle to vehicle-based distributed cooperative sensing positioning for internet of vehicles QIAO Xiao-kang, QU Xiao-mei	(988)
Consensus of discrete-time multi-agent system based on Q-learning ZHU Zhi-bin, WANG Fu-yong, YIN Yan-hui, LIU Zhong-xin, CHEN Zeng-qiang	(997)
Improved ant colony algorithm for unmanned surface vehicle smooth path planning AO Bang-qian, YANG Sha, YE Zhen-huan	(1006)
Finite-time distributed optimization of second-order nonlinear multi-agent systems LOU Ru-si, WANG Lu-yao, MA Dan	(1015)
Design of an intelligent cooperative fault-tolerant trajectory tracking control system for multi-servo motors ZHU Jun-wei, GU Cao-yuan, WANG Ding, ZHANG Wen-an, WANG Xin	(1023)
Robust distributed tracking control with simultaneous estimation and compensation of internal and external uncertainties ZHANG Te, LI Shi-yao, ZHU Bo	(1033)
Formation control of mobile robots using bearing-only measurements.....	TAN Yao, MEI Jie (1043)
Collaborative optimization algorithm for aggregating energy storage in frequency modulation service ZENG Jun, HU Jia-jian, XU Ming-kang, PAN Zhi-wei, LIU Jun-feng	(1051)
Interval economic dispatch of multi-objective cooperative game considering wind power and energy storage connected to power grid HUANG Di, YANG Xin, GAO Lin, ZHANG Cong, CHEN Hao-yong	(1061)
Group agent formation for resilient average consensus under attacks WANG Gang-yang, XU Ming, WU Yi-ming, HU Qin-ling, ZHENG Ning	(1071)
Fully distributed observer-based adaptive fault-tolerant consensus control for multi-agent systems YIN Yan-hui, WANG Fu-yong, LIU Zhong-xin, CHEN Zeng-qiang	(1082)
Robot formation algorithm with limited communication LOU Jia-xiang, GUAN Zhen-feng, LIU Hai-ming, CAI He, GAO Huan-li, HUANG Jie	(1091)
Distributed output feedback asymptotic consensus control for nonlinear multi-agent systems with hysteresis LIU Ye, YANG Peng-ju, ZHANG Xu	(1102)
Anti-disturbance fixed-time formation control of multi-AUVs via event-triggered strategy SU Bo, WANG Hong-bin, GAO Jing	(1113)
Coordinated formation control of car-like mobile robots guided by parameterized single path WANG Chang-shun, WANG Dan, PENG Zhou-hua	(1124)