

目 次

评述

AI 大模型驱动的具身智能人形机器人技术与展望	967
曾凯, 王耀南, 谭浩然, 方道, 汪渊, 袁礼伟	
新能源电池光纤精准检测研究	993
李婉君, 薛小斌, 王溪铖, 颜正强, 韩喜乐, 郭团	

论文

基于可调 Even-Mansour 密码实例构造超生日界安全的可调密码本原	1007
张平, 罗宜元	
面向三维人体姿态估计的特征传递平衡图卷积网络	1033
赵扬飞, 刘任波, 张伟峰, 牛永, 王硕, 吕培, 徐明亮	
基于无人机的临场空间感知与采集路径规划	1051
章星明, 谢科, 黄鹏顿, 刘奕林, 黄惠	
基于数据集和任务偏置的广义持续类别发现	1073
冀中, 杨硕, 刘景仁, 庞彦伟, 李学龙	
基于亲和向量一致性的弱监督语义分割	1088
毕秀丽, 徐培君, 范骏超, 刘波, 马建峰, 肖斌	
基于 $(U, U+V)$ 码构造的有效盲签名方案	1108
杨洋, 张方国, 肖阔杰	
复杂问题求解的多粒度计算框架	1122
张清华, 王宇泰, 赵凡, 程云龙, 王国胤	
基于相对论效应的自主星光导航技术	1140
袁利, 熊凯, 赵琴	
基于跨时空注意力机制的多变量时间序列异常检测	1157
周平, 曾扬洋, 张宇, 姜午恺, 张瑞垚	
边缘辅助下智能网联车辆的协同控制和灵活编队	1177
韩乔妮, 成国文, 杨博, 左志强, 关新平	
城市固废焚烧过程动态协同优化方法	1200
黄卫民, 蒙西, 乔俊飞	
基于强化联邦学习的车联网 DDoS 攻击检测	1221
于峻骁, 石润华	
基于有向联合连通的多机械臂协同控制系统	1239
梁思琪, 穆文鑫, 刘梅, 金龙	

刊讯

具身智能专题简介	1251
孙健, 程龙, 贺威, 唐漾	
6G 通信感知一体化技术专题简介	1253
武刚, 崔琪楣, 刘凡, 刘光毅, 任红, 曾勇, Christos MASOUIROS	

Contents

REVIEW

- Prospects and technology of embodied intelligent humanoid robots driven by AI large models 967
Kai ZENG, Yaonan WANG, Haoran TAN, Qiu FANG, Yuan WANG & Liwei YUAN
- Advanced optical fiber sensors for renewable energy storage monitoring 993
Wanjuan LI, Xiaobin XUE, Xicheng WANG, Zhengqiang YAN, Xile HAN & Tuan GUO

RESEARCH PAPER

- Beyond-birthday-bound (BBB) secure tweakable cryptographic primitives based on tweakable Even-Mansour cipher instances 1007
Ping ZHANG & Yiyuan LUO
- Balance feature transferring GCN for 3D human pose estimation 1033
Yangfei ZHAO, Renbo LIU, Weifeng ZHANG, Yong NIU, Shuo WANG, Pei LV & Mingliang XU
- Onsite spatial perception and UAV acquisition path planning 1051
Xingming ZHANG, Ke XIE, Pengdi HUANG, Yilin LIU & Hui HUANG
- Generalized continual category discovery based on dataset and task biases 1073
Zhong JI, Shuo YANG, Jingren LIU, Yanwei PANG & Xuelong LI
- Weakly supervised semantic segmentation based on affinity vector consistency 1088
Xiuli BI, Peijun XU, Junchao FAN, Bo LIU, Jianfeng MA & Bin XIAO
- An efficient blind signature scheme based on $(U, U + V)$ codes 1108
Yang YANG, Fangguo ZHANG & Kuojie XIAO
- Multi-granularity computing framework for complex problem solving 1122
Qinghua ZHANG, Yutai WANG, Fan ZHAO, Yunlong CHENG & Guoyin WANG
- Autonomous starlight navigation technology based on relativistic perturbations 1140
Li YUAN, Kai XIONG & Qin ZHAO
- Multivariable time series anomaly detection based on cross spatial-temporal attention mechanism 1157
Ping ZHOU, Yangyang ZENG, Yu ZHANG, Wukai JIANG & Ruiyao ZHANG
- Edge-assisted cooperative control and exible formation for connected and automated vehicles 1177
Qiaoni HAN, Guowen CHENG, Bo YANG, Zhiqiang ZUO & Xinping GUAN
- A dynamic cooperative optimization method for municipal solid waste incineration process 1200
Weimin HUANG, Xi MENG & Junfei QIAO
- DDoS attack detection in the Internet of Vehicles based on reinforced federated learning 1221
Junxiao YU & Runhua SHI
- A multi-manipulator collaboration control system based on directed jointly connected topology 1239
Siqi LIANG, Wenxin MU, Mei LIU & Long JIN

EDITORIAL NOTE

- Special topic: embodied intelligence 1251
Jian SUN, Long CHENG, Wei HE & Yang TANG
- Special topic: integrated sensing and communications techniques for 6G 1253
Gang WU, Qimei CUI, Fan LIU, Guangyi LIU, Hong REN, Rong ZENG & Christos MASOUIROS