

电 讯 技 术

Dianxun Jishu

(1958 年创刊, 月刊)

第 63 卷

第 8 期 (总第 417 期)

2023 年 8 月 28 日

目 次

应用基础与前沿技术

- 基于 FMCW 雷达的多通道特征融合人体动作识别方法张丽丽, 刘 博, 屈乐乐, 陈 真 (1109)
- 大规模 MIMO 信号检测 IPIC 算法的深度学习网络曾相誌, 涂媛媛, 申 滨 (1117)

电子与信息工程

- 相控阵测控技术 (一): 相控阵角跟踪概论刘嘉兴 (1125)
- 反隐身飞机突防战术仿真姬伟杰 (1133)
- 多源融合的数据链网络性能评估方法研究刘宏波, 肖思帅, 卢冷然, 孟 进 (1139)
- 一种基于相控阵天线的前向机载防撞系统杨沛斌, 张紫潇, 赵永库 (1145)
- 面向多模异构任务的无人机集群自主协同优化姚昌华, 安 蕾 (1151)
- 基于数字相干体制的激光测距数传一体化技术研究是实现杨海峰 (1159)
- 低轨卫星星座快速响应链路损毁路由算法崔荣芳, 徐 湛, 职如昕 (1165)
- 一种“北斗”卫星导航系统三频周跳探测与修复方法王靖君, 熊泽凯, 劳源基, 覃团发 (1173)
- 一种基于复合测量体制的高精度轨道测量方法陈宏烨, 朱 蓉, 李增有, 戴由旺 (1180)
- 一种应用 DS 证据理论的雷达目标与 IFF 点迹关联方法闫善勇 (1186)
- 动与静目标双重检测的手势检测方案及硬件设计许云岚, 李翔宇 (1192)
- 毫米波系统中基于压缩感知的波束空间信道估计陈发堂, 梁志勇, 王阳阳 (1199)
- 双智能反射面辅助的毫米波系统和速率最大化研究魏思悦, 岳殿武, 苏雨苗, 戈忠义, 李光辉 (1206)
- 通信受限条件下的多节点信号快速关联算法朱明军, 黄渊凌, 纪晓婷 (1213)
- 针对时间交织采样的后台自适应频域校准技术丁 晟, 孙友礼 (1220)
- 基于改进 CenterNet 的图像多篡改检测模型夏 涛, 黄 俊, 徐太秀 (1228)
- 基于多模型融合的航空电子产品故障预测方法文 佳, 梁天辰, 陈擎宙, 钱 东 (1237)
- 小样本下的低压电力线网络故障量化刘 臻, 白 桦, 吴 笛, 林 斌, 褚如旭, 王韬樾 (1243)
- 一种磁耦合激励的圆极化滤波天线汤晓云, 王 震, 丁卓富, 肖 利 (1249)
- 扰流小通道液冷板流动与传热特性的数值研究马 岩, 倪 涛, 张 立, 谢欢欢 (1254)

综述与评论

- 水面导航与监视雷达技术进展彭祥龙 (1259)
- 未来机载能力环境 (FACE) 技术发展综述王 鹏, 曹先泽, 张 伟, 李 铮, 赵长啸 (1268)

其他

- 本刊已录用论文开放科学 (资源服务) 标识码 (OSID) 展示 (五十二)封二
- 稿约封三

TELECOMMUNICATION ENGINEERING

(Monthly, Started in 1958)

Vol.63

No.8 (Series No. 417)

August 28, 2023

CONTENTS

Application Fundamental Research and Advanced Technology

- Multi-channel feature fusion for human activity recognition based on FMCW radar
.....ZHANG Lili, LIU Bo, QU Lele, CHEN Zhen (1109)
- Deep learning network based on IPIC algorithm for massive MIMO signal detection
.....ZENG Xiangzhi, TU Yuanyuan, SHEN Bin (1117)

Electronics and Information Engineering

- Phased array TT&C technology—part1: introduction to phased array angular tracking.....LIU Jiaxing (1125)
- Anti-stealth aircraft penetration tactics simulation.....JI Weijie (1133)
- Research on performance evaluation method of data link network based on multi-source fusion
.....LIU Hongbo, XIAO Sishuai, LU Qianran, MENG Jin (1139)
- A forward traffic alert and collision avoidance system based on phased array antenna
.....YANG Peibin, ZHANG Zixiao, ZHAO Yongku (1145)
- Autonomous collaborative optimization of UAV swarms for multi-mode heterogeneous tasks.....YAO Changhua, AN Lei (1151)
- Research on and implementation of integrated technique of laser ranging and data transmission based on digital coherent system
.....YANG Haifeng (1159)
- A quick-response link destruction routing algorithm for LEO satellite constellation.....CUI Rongfang, XU Zhan, ZHI Ruxin (1165)
- A method for detecting and repairing triple-frequency cycle slips of Beidou navigation satellite system
.....WANG Jingjun, XIONG Zekai, LAO Yuanji, QIN Tuanfa (1173)
- A high precision trajectory measurement method based on composite measurement system
.....CHEN Hongye, ZHU Rong, LI Zengyou, DAI Youwang (1180)
- Radar target and IFF plot association based on DS evidence theory.....YAN Shanyong (1186)
- Gesture detection scheme and hardware design for dual detection of moving and static targets.....XU Yunlan, LI Xiangyu (1192)
- Compressive sensing based beamspace channel estimation in millimeter wave systems
.....CHEN Fatang, LIANG Zhiyong, WANG Yangyang (1199)
- Research on sum rate maximization for a double-IRS-assisted millimeter wave system
.....WEI Siyue, YUE Dianwu, SU Yumiao, GE Zhongyi, LI Guanghui (1206)
- A fast signal association algorithm for multi-node under limited communication conditions
.....ZHU Mingjun, HUANG Yuanling, JI Xiaoting (1213)
- Background adaptive frequency calibration technology for TIADC systems.....DING Sheng, SUN Youli (1220)
- Image multiple forgery detection model based on improved CenterNet.....XIA Tao, HUANG Jun, XU Taixiu (1228)
- An avionics fault prognostic method based on multi-model fusion
.....WEN Jia, LIANG Tianchen, CHEN Qingzhou, QIAN Dong (1237)
- Fault quantification of low voltage power line network under small samples
.....LIU Zhen, BAI Hua, WU Di, LIN Bin, CHU Ruxu, WANG Taoyue (1243)
- A circularly polarized filter antenna excited by magnetic coupling.....TANG Xiaoyun, WANG Zhen, DING Zhuofu, XIAO Li (1249)
- Numerical study on flow and heat transfer of turbulence minichannel heat sink
.....MA Yan, NI Tao, ZHANG Li, XIE Huanhuan (1254)

Summarization and Review

- Advances in surface navigation and surveillance radar technology.....PENG Xianglong (1259)
- Review on future airborne capability environment(FACE) technology development
.....WANG Peng, CAO Xianze, ZHANG Wei, LI Zheng, ZHAO Changxiao (1268)