

电讯技术

Dianxun Jishu

(1958 年创刊, 月刊)

第 63 卷

第 1 期 (总第 410 期)

2023 年 1 月 28 日

目 次

应用基础与前沿技术

- 基于深度强化学习的智能决策方法 熊容玲, 段春怡, 冉华明, 杨萌, 冯旸赫 (1)
智能反射面辅助的毫米波 MIMO 系统波束成形设计 戈忠义, 岳殿武, 李光辉, 魏思悦, 苏雨苗 (7)

电子与信息工程

- 中小型无人机 AIS 侦察系统应用技术 杨云志 (14)
深空长时延条件下测控系统捕获应急处置方法 张伟, 刘军, 陈少伍, 金文马, 苏舜 (19)
毫米波星间通信测距一体化技术研究 张仲楷, 崔高峰, 和梦敏, 辛星, 王卫东 (24)
航天测控网多模式效能评估系统设计与关键技术实现 马佳楠, 张利萍, 董浩, 雷永刚 (32)
阵元失效下基于核范数和 SCAD 惩罚的 MIMO 雷达 DOA 估计 陈金立, 付善腾, 朱熙铖, 李家强 (39)
GEO SAR 照射的机载前视接收双基 SAR 系统二维分辨能力分析 张漓铧, 左伟华, 刘波 (47)
弹载俯冲前斜 SAR 目标测角及精度分析 常军, 陈娟, 张璋, 常昶 (56)
对抗恶意无人机窃听的无人机通信系统三维航迹规划和功率控制 苏恭超, 代明军, 陈彬, 林晓辉, 王晖 (63)
异构无线网络资源管理与切换控制技术 章广梅, 郑友亮, 童惠祺, 肖汝迪 (70)
下一代车载时间敏感网络架构设计与调度评估 赵晓敏, 王腾, 李宗辉, 宫新乐, 黄晋, 魏鹏 (77)
车联网中网络切片资源分配方案 李悦, 任春莉, 章国安 (85)
基于改进 EfficientNet 的雷达信号调制方式识别 苏琮智, 王美玲, 杨承志, 吴宏超 (93)
基于残差神经网络的无人机射频信号识别 杨小伟, 王泽跃, 杨鹤猛, 杨雪, 张莉莉, 陈艳芳 (101)
基于 P-NOMA 的上行水声通信网络容量分析 颜晓娟, 张千锋, 李丹, 陶卫平, 范永彬 (107)
一种应急通信中业务感知的宽带自组网路由协议 耿志 (113)
一种利用双路相移布拉格光栅的快速微波频率测量方案 李城鑫, 毛久兵 (120)
相控阵测控系统瓦式一体化 T/R 组件设计 李旭 (125)
宽波束±45°双线极化偶极子天线阵列设计 姜兴, 程林, 李晓峰, 彭麟, 廖欣 (131)

综述与评论

- 三维集成微波组件技术: 进展与展望 黄建 (137)
支持四维航迹运行的新一代民机数据链技术综述 刘天华, 王丽, 林静, 王勇 (145)

其他

- 河北唐山读者安秀扬先生为《电讯技术》创刊 65 周年题写的贺词 (119)
《电讯技术》中国科技核心期刊 (中国科技论文统计源期刊) 收录证书 (有效期至 2023 年 12 月) 封二
《科技期刊世界影响力指数 (WJCI) 报告 (2022)》收录证书 封三

TELECOMMUNICATION ENGINEERING

(Monthly, Started in 1958)

Vol.63

No.1 (Series No. 410)

January 28, 2023

CONTENTS

Application Fundamental Research and Advanced Technology

- An intelligent decision making method based on deep reinforcement learning XIONG Rongling, DUAN Chunyi, RAN Huaming, YANG Meng, FENG Yanghe (1)
Beamforming design of millimeter wave MIMO system assisted by intelligent reflecting surface GE Zhongyi, YUE Dianwu, LI Guanghui, WEI Siyue, SU Yumiao (7)

Electronics and Information Engineering

- Applied technology of middle and small-sized UAV AIS reconnaissance system YANG Yunzhi (14)
Emergency disposal method of TT&C system acquisition under deep space long-time delay condition ZHANG Wei, LIU Jun, CHEN Shaowu, JIN Wenma, SU Ben (19)
Research on integrated technology of millimeter wave inter-satellite communication and ranging ZHANG Zhongkai, CUI Gaofeng, HE Mengmin, XIN Xing, WANG Weidong (24)
A multi-pattern effectiveness evaluation system for space TT&C network: design and key technologies realization MA Jianan, ZHANG Liping, DONG Hao, LEI Yonggang (32)
DOA estimation based on nuclear norm and SCAD penalty in MIMO radar under array antenna failure CHEN Jinli, FU Shanteng, ZHU Xicheng, LI Jiaqiang (39)
Two-dimensional resolution analysis of airborne forward-looking receiving bistatic SAR system with GEO SAR illumination ZHANG Haohua, ZUO Weihua, LIU Bo (47)
Target angle measurement and accuracy analysis of missile-borne squint SAR with diving maneuver CHANG Jun, CHEN Juan, ZHANG Zhang, CHANG Chang (56)
3D trajectory design and power control for UAV-enabled communication systems against malicious UAV eavesdroppers SU Gongchao, DAI Mingjun, CHEN Bin, LIN Xiaohui, WANG Hui (63)
Heterogeneous wireless network resource management and handoff control technology ZHANG Guangmei, ZHENG Youliang, TONG Huiqi, XIAO Rudi (70)
Architecture design and scheduling evaluation of next-generation vehicular time-sensitive network ZHAO Xiaomin, WANG Teng, LI Zonghui, GONG Xinle, HUANG Jin, WEI Peng (77)
A resource allocation scheme for network slicing in Internet of Vehicles LI Yue, REN Chunli, ZHANG Guoan (85)
Radar signal modulation recognition based on improved EfficientNet SU Congzhi, WANG Meiling, YANG Chengzhi, WU Hongchao (93)
UAV RF signal identification based on residual neural network YANG Xiaowei, WANG Zeyue, YANG Hemeng, YANG Xue, ZHANG Lili, CHEN Yanfang (101)
Capacity analysis of P-NOMA based uplink underwater acoustic communication networks YAN Xiaojuan, ZHANG Qianfeng, LI Dan, TAO Weiping, FAN Yongbin (107)
A traffic-aware broadband ad hoc network routing protocol for emergency communication GENG Zhi (113)
A fast microwave frequency measurement scheme using double channel phase-shift fiber Bragg gratings LI Chengxin, MAO Jiubing (120)
Design of a tile-type integrated T/R module for phased array TT&C system LI Xu (125)
Design of a wide-beam $\pm 45^\circ$ double-line polarization dipole antenna array JIANG Xing, CHENG Lin, LI Xiaofeng, PENG Lin, LIAO Xin (131)

Summarization and Review

- Technologies of three-dimensional integrated microwave module: advances and prospects HUANG Jian (137)
Overview of new generation civil aviation datalink technology supporting 4D trajectory based operation LIU Tianhua, WANG Li, LIN Jing, WANG Yong (145)