

电 讯 技 术

Dianxun Jishu

(1958 年创刊, 月刊)

第 63 卷

第 2 期 (总第 411 期)

2023 年 2 月 28 日

目 次

应用基础与前沿技术

- 基于稀疏深度神经网络的电磁信号调制识别 杨小蒙, 张 涛, 庄建军, 唐 震 (151)
- 基于贝叶斯压缩感知的子空间拟合离格 DOA 估计 高卫港, 王 鼎, 张钺洋, 李 恺, 吕 静 (158)

电子与信息工程

- 首次火星探测任务遥测帧同步参数设计 刘 军, 强 立, 张 伟, 吴宗清, 卢欧欣 (165)
- 面向地球表面三维空间的远程监视覆盖优化 李奇真 (173)
- 利用部分重叠信道的多无人机自主协同优化抗干扰 姚昌华, 程 康, 张建照, 刘 鑫, 胡程程 (179)
- 无人机测控系统中干扰感知与频谱资源管理技术 杨林超 (187)
- 结合目标提取和深度学习的红外舰船检测 白 玉, 迟文恺, 谢宝蓉, 张 雷, 郑莲玉, 穆文涛 (193)
- 战术数据链空时联合抗干扰技术 康荣雷, 安 毅, 班亚龙, 杨少帅 (199)
- 一种稀疏重建的天波雷达射频干扰抑制算法 邱 峰, 黄中华, 邹欣颖 (206)
- 基于雷达点迹处理的抗 RGPO 干扰的机动目标跟踪 何仁军, 熊 杰 (212)
- 改进的 DetNet 大规模 MIMO 检测器 李素月, 贾 鹏, 王安红 (220)
- 一种基于拥塞等级划分的 LTE-V 资源碰撞避免机制 王致远, 刘 留, 樊圆圆, 庄凌凡, 刘美鹭 (226)
- 基于边缘计算的泵闸站数据处理任务分发机制研究 李旭杰, 臧振楠, 孙 颖, 刘春燕, 黄凤辰 (233)
- 基于改进压缩感知的宽带低压 PLC 系统脉冲噪声抑制算法 袁一铭, 申 敏, 徐勇军 (242)
- 基于分布式压缩感知的改进 SOMP 信道估计算法 王 宇, 马秀荣, 单云龙 (249)
- FBMC-OQAM 系统定时同步改进算法 沈 麟, 颜 彪, 刘为波, 丁宇舟 (255)
- 一种降低 FBMC-OQAM 系统 PAPR 的 ASSABC-PTS 算法 秦雪莲, 杨永立, 邹鸿洋 (260)
- 4.9 GHz 小型化集成相控阵天线设计 陈锡聪, 林福民, 周冬跃, 李红涛, 王媛媛 (267)
- X 频段介质加载圆极化喇叭天线设计 罗永愿, 彭 麟, 廖 欣 (275)

综述与评论

- 天基物联网: 基本概念、体系架构及发展趋势 李 凯, 李 峰, 杨伟铭 (281)
- 面向大规模 MIMO 系统的下行预编码技术研究进展 张冬雪, 杜洁汝, 何世彪, 廖 勇 (291)
- 美陆军面向战场物联网的边缘智能发展综述 李 琨, 姜典辰 (300)

其他

- 本刊已录用论文开放科学 (资源服务) 标识码 (OSID) 展示 (四十八) 封二
- 稿约 封三

TELECOMMUNICATION ENGINEERING

(Monthly, Started in 1958)

Vol.63

No.2 (Series No. 411)

February 28, 2023

CONTENTS

Application Fundamental Research and Advanced Technology

Modulation recognition of electromagnetic signal based on sparse depth neural network

.....YANG Xiaomeng, ZHANG Tao, ZHUANG Jianjun, TANG Zhen (151)

Subspace fitting off-grid DOA estimation based on Bayesian compressed sensing

.....GAO Weigang, WANG Ding, ZHANG Yueyang, LI Kai, LYU Jing (158)

Electronics and Information Engineering

Parameter design for telemetry frame synchronization in the first Mars exploration mission

.....LIU Jun, QIANG Li, ZHANG Wei, WU Zongqing, LU Ouxin (165)

Coverage optimization for remote surveillance oriented to 3D space on the earth's surface.....LI Qizhen (173)

Multi-UAV autonomous cooperative optimization of anti-jamming based on partially overlapping channel

.....YAO Changhua, CHENG Kang, ZHANG Jianzhao, LIU Xin, HU Chengcheng (179)

Interference sensing and spectrum resource management technology in UAV TT&C system.....YANG Linchao (187)

Infrared ship detection by combining target extraction and deep learning

.....BAI Yu, CHI Wenkai, XIE Baorong, ZHANG Lei, ZHENG Lianyu, MU Wentao (193)

Space-time adaptive anti-jamming technique for tactical data link.....KANG Ronglei, AN Yi, BAN Yalong, YANG Shaoshuai (199)

A radio frequency interference suppression algorithm for sky wave radar based on sparse reconstruction

.....QIU Feng, HUANG Zhonghua, ZOU Xinying (206)

Maneuvering target tracking with anti-RGPO jamming ability based on radar plot processing.....HE Renjun, XIONG Jie (212)

Modified DetNet massive MIMO detector.....LI Suyue, JIA Peng, WANG Anhong (220)

A resource collision avoidance mechanism of LTE-V based on congestion level division

.....WANG Zhiyuan, LIU Liu, FAN Yuanyuan, ZHUANG Lingfan, LIU Meilu (226)

Research on data processing task distribution mechanism of pump gate station based on edge computing

.....LI Xujie, ZANG Zhennan, SUN Ying, LIU Chunyan, HUANG Fengchen (233)

An impulse noise suppression algorithm for broadband low-voltage PLC systems via modified compressed sensing

.....YUAN Yiming, SHEN Min, XU Yongjun (242)

An improved SOMP channel estimation algorithm based on distributed compressed sensing

.....WANG Yu, MA Xiurong, SHAN Yunlong (249)

An improved timing synchronization algorithm for FBMC-OQAM systems

.....SHEN Lin, YAN Biao, LIU Weibo, DING Yuzhou (255)

An ASSABC-PTS algorithm for PAPR reduction in FBMC-OQAM system.....QIN Xuelian, YANG Yongli, ZOU Hongyang (260)

Design of a 4.9 GHz miniaturized integrated phased array antenna

.....CHEN Xicong, LIN Fumin, ZHOU Dongyue, LI Hongtao, WANG Yuanyuan (267)

Design of an X-band dielectric loaded circular polarization horn antenna.....LUO Yongyuan, PENG Lin, LIAO Xin (275)

Summarization and Review

Space-based Internet of Things: basic concepts, system architecture and development trends

.....LI Kai, LI Feng, YANG Weiming (281)

Research progress of downlink precoding techniques for massive MIMO systems

.....ZHANG Dongxue, DU Jieru, HE Shibiao, LIAO Yong (291)

Review of U.S. Army Internet of Battlefield Things edge intelligence development.....LI Kun, JIANG Dianchen (300)