

电讯技术

Dianxun Jishu

(1958 年创刊,月刊)

第 64 卷

第 7 期(总第 428 期)

2024 年 7 月 28 日

目 次

“UAV 赋能的近空地协同组网与通信”专题



扫码查看专题导读

- 全网应急通信无人机系统设计及对地覆盖策略 曾 勇,周 睿,唐 军,赵 林,秦 萌,赵政宁(995)
无人机辅助传感器网络中吞吐量与节点能量优化方法 韩东升,梁 燊(1005)
面向异构传输需求的多无人机通信协同抗干扰决策方法 姚昌华,巫 刚,李家强,祁博宇,苏 婷,刘 鑫,付 浩(1015)
一种基于空洞节点检测的可靠无人机自组网路由协议 姚玉坤,刘长安,张斐翔,谢雨珈(1025)
基于强化学习的能量受限无人机通信感知轨迹规划方法 张智琛,何振清,李 彬(1033)
面向大规模物联网的无人机通信感知一体化能效优化算法 宋利枝,季增栓,曾 凤,王 伟,杨永杰(1042)
国产化无人机机载数据链路系统模拟器设计 张鑫刚,张富斌,薛 培,邵春伟,沈小波(1050)
无人机自组网中基于信任的路由机制 杨 磊,龙 伟(1058)

应用基础与前沿技术

- 一种采用联邦深度强化学习的车联网资源分配方法 王辛果,王 祂(1065)
双智能反射面辅助的感知通信一体化波束赋形与相移优化 谭子谦,韩士莹,李 月(1072)
IRS 辅助 MU-MISO 系统中基于深度残差学习的信道估计 陈发堂,朱鹏云,杨 涛,孙 寅(1079)
基于生成对抗学习的标准 rPPG 信号生成 涂晓光,胡哲昊,胡俊强,刘建华,雷 霞,刘宇昂,王 宇,冯子亮(1088)

电子与信息工程

- 基于“北斗”差分的双基 SAR 高精度时频同步方法 班亚龙,李沛洲,康荣雷,常 爰(1095)
全自动精密进近引导与传输技术研究 顾海燕,熊 健(1102)
一种低碰撞多传输的水声无线网络 MAC 协议 任 智,邱 金,郭 建,陈春宇(1107)
导频辅助的突发信号多普勒频偏及变化率联合估计 刘 洋(1115)
资源块间跳频的高可靠 SCMA 系统设计与分析 曾 琦,杨 坤,方 科,郝黎宏,牛宪华,钟 俊,刘 星(1123)
面向异构信号处理平台的混合优化调度算法 李宇东,马金全,岳春生,冀亚玮,张 坤,沈小龙(1132)
面向隐蔽双站反向散射网络的性能优化 尹沛桐,李 欢,叶迎晖,卢光跃(1140)
基于磁耦合谐振腔的可重构宽带匹配电路 李航标(1147)
V 频段宽带高效率功率合成放大器设计 胡顺勇(1156)

综述与评论

- 基于深度学习的跨域辐射源个体识别综述 李奇真,刘佳旭,梁先明,龙慧敏,董 海,曹广平,李建清(1163)

简讯

- 《电讯技术》加入电子信息领域期刊集群 《电讯技术》编辑部 赵勇(1014)
《电讯技术》编辑部荣获第四届“西牛计划”多项荣誉 《电讯技术》编辑部 李桂花(1162)

其他

- 公益广告:弘扬红船精神 走在时代前列 封二
公益广告:爱我国防 封三

TELECOMMUNICATION ENGINEERING

(Monthly , Started in 1958)

Vol. 64

No. 7(Series No. 428)

July 28, 2024

CONTENTS

Special Topic on UAV-Enabled Air-Ground Collaborative Networking and Communication

- Design of an emergency communications UAV system compatible for all Chinese Telecom operators and its ground coverage strategy *ZENG Yong, ZHOU Rui, TANG Jun, ZHAO Lin, QIN Meng, ZHAO Zhengning* (995)
A throughput and nodes energy optimization method in UAV-assisted sensor network *HAN Dongsheng, b, LIANG Yu* (1005)
A multi-UAV communication collaborative anti-jamming decision-making method for heterogeneous transmission requirements *YAO Changhua, WU Gang, LI Jiaqiang, QI Boyu, SU Ting, LIU Xin, FU Shu* (1015)
A reliable UAV ad hoc network routing protocol based on hole node detection *YAO Yukun, LIU Chang'an, ZHANG Feixiang, XIE Yujia* (1025)
A reinforcement learning-based trajectory planning method for energy-constraint UAV communication and sensing *ZHANG Zhichen, HE Zhenqing, LI Bin* (1033)
Energy efficiency optimization for UAV-enabled integrated sensing and communication in massive IoT scenario *SONG Lizhi, JI Zengshuan, ZENG Feng, WANG Wei, YANG Yongjie* (1042)
Design of a domestic UAV onboard data link system simulator *ZHANG Xingang, ZHANG Fubin, XUE Pei, SHAO Chunwei, SHEN Xiaobo* (1050)
A trust-based routing mechanism in UAV ad hoc networks *YANG Lei, LONG Wei* (1058)

Application Fundamental Research and Advanced Technology

- A resource allocation method using federated deep reinforcement learning in vehicular networks *WANG Xinguo, WANG Chang* (1065)
Beamforming and phase shifts optimization for a double IRS-assisted integrated sensing and communication *TAN Ziqian, HAN Shiying, LI Yue* (1072)
Channel estimation based on deep residual learning in IRS-assisted MU-MISO systems *CHEM Fatang, ZHU Pengyun, YANG Tao, SUN Chen* (1079)
Standard rPPG signal generation based on generative adversarial learning *TU Xiaoguang, HU Zhehao, HU Junqiang, LIU Jianhua, LEI Xia, LIU Yuang, WANG Yu, FENG Ziliang* (1088)

Electronics and Information Engineering

- A high precision time-frequency synchronization method of bistatic SAR based on differential Beidou *BAN Yalong, LI Peizhou, KANG Ronglei, CHANG Jun* (1095)
Research on fully automatic precision approach guidance and transmission technology *GU Haiyan, XIONG Jian* (1102)
A low collision multi-transmission MAC protocol for underwater acoustic wireless networks *REN Zhi, QIU Jin, GUO Jian, CHEN Chunyu* (1107)
Pilot-aided joint estimation of Doppler shift and Doppler rate for burst transmission *LIU Yang* (1115)
Design and analysis of a reliable SCMA system based on inter-RBs frequency hopping *ZENG Qi, YANG Kun, FANG Ke, HAO Lihong, NIU Xianhua, ZHONG Jun, LIU Xing* (1123)
A hybrid optimal scheduling algorithm for heterogeneous signal processing platform *LI Yudong, MA Jinquan, YUE Chunsheng, JI Yawei, ZHANG Kun, SHEN Xiaolong* (1132)
Performance optimization of covert bistatic backscatter communication *YIN Peitong, LI Huan, YE Yinghui, LU Guangyue* (1140)
Reconfigurable wideband matching network based on magnetically coupled resonator tank *LI Hangbiao* (1147)
Design of a V-band high efficiency power-combining amplifier *HU Shunyong* (1156)

Summarization and Review

- Cross-domain specific emitter identification based on deep learning:a comprehensive survey *LI Qizhen, LIU Jiaxu, LIANG Xianming, LONG Huimin, DONG Hai, CAO Guangping, LI Jianqing* (1163)