

美国工程索引 (EI) 核心数据库收录期刊
中国科技期刊卓越行动计划入选期刊

ISSN 1000-436X
CODEN TOXUDB
CN 11-2102/TN

通信学报

Journal on Communications

第 44 卷 第 3 期 Vol. 44 No. 3 | 2023 年 3 月 Mar. 2023



中国通信学会主办

A Publication of China Institute of Communications

中国 · 北京 Beijing, China

通信学报

第 44 卷第 3 期 2023 年 3 月

目次

学术论文

基于对比增量学习的细粒度恶意流量分类方法	王一丰, 郭渊博, 陈庆礼, 方晨, 林昶昊, 周永良, 马佳利 [2023068](1)
面向数字孪生边缘网络的区块链分片及资源自适应优化机制	蒋丽, 谢胜利, 田辉 [2023044](12)
宽带数字阵列雷达通道固定时延误差估计技术的研究	张小贝, 张权, 方明, 秦琨, 张琦 [2023067](24)
拟态路由器 BGP 代理的设计实现与形式化验证	张进, 葛强, 徐伟海, 江逸茗, 马海龙, 于洪涛 [2023065](33)
无人机辅助边缘计算中安全通信与能效优化策略	余雪勇, 邱礼翔, 宋家宁, 朱洪波 [2023032](45)
基于散射自由程随机重采样的光量子定位方法	周牧, 张靖, 王勇, 杨小龙, 李玲霞 [2023053](55)
基于多分类器集成的区块链网络层异常流量检测方法	戴千一, 张斌, 郭松, 徐开勇 [2023066](66)
面向 6G 毫米波通信感知一体化的机动目标联合定位与测速	周炳朋, 马珊珊 [2023041](81)
分层跨链结构: 一种面向区块链系统监管的可行架构	经普杰, 王良民, 董学文, 张玉书, 王骞, Muhammad Sohail [2023038](93)
基于特征融合的通信语音干扰效果客观评估	林云, 徐怀韬, 王森, 张思成, 庄龙 [2023043](105)
面向网络攻击和隐私保护的多智能体系统分布式共识算法	徐明, 张保俊, 伍益明, 应晨铎, 郑宁 [2023049](117)
高误码率下基于随机抽取的 LDPC 码校验矩阵重建	王忠勇, 李正豪, 巩克现, 孙鹏, 李清涛 [2023062](128)
新的 II 型偶长 Z-互补对构造	陈晓玉, 孙连峰, 张杰坤, 李玉博 [2023052](138)
基于时空卷积的机会网络拓扑预测	舒坚, 史佳伟, 刘琳岚, Manar Al-Kali [2023060](145)
基于聚类赋权的冲突证据组合方法	董煜, 张友鹏 [2023029](157)
基于偏向稳定的分布式审计因果一致性模型	田俊峰, 杨乾宇, Jitian Xiao [2023059](164)
基于 ISRSAC 数字签名算法的适配器签名方案	张艳硕, 刘宁, 袁煜淇, 杨亚涛 [2023056](178)
区块链架构下高效的车联网跨域数据安全共享研究	刘雪娇, 曹天聪, 夏莹杰 [2023031](186)

学术通信

面向 6G 的深度图像语义通信模型	江沸菠, 彭于波, 董莉 [2023050](198)
联合低秩重构和投影重构的稳健特征选择方法	仪双燕, 梁永生, 陆晶晶, 柳伟, 胡涛, 何震宇 [2023061](209)
基于矩阵作用问题的公钥密码体制抗量子攻击安全性分析	黄华伟 [2023064](220)

Contents

Papers

Method based on contrastive incremental learning for fine-grained malicious traffic classification.....	
.....	<i>WANG Yifeng, GUO Yuanbo, CHEN Qingli, FANG Chen, LIN Renhao, ZHOU Yongliang, MA Jiali</i> [2023068](1)
Adaptive resource optimization mechanism for blockchain sharding in digital twin edge network.....	
.....	<i>JIANG Li, XIE Shengli, TIAN Hui</i> [2023044](12)
Research on channel-fixed delay error estimation of wideband digital array radar.....	
.....	<i>ZHANG Xiaobei, ZHANG Quan, FANG Ming, QIN Kun, ZHANG Qi</i> [2023067](24)
Design, implementation and formal verification of BGP proxy for mimic router.....	
.....	<i>ZHANG Jin, GE Qiang, XU Weihai, JIANG Yiming, MA Hailong, YU Hongtao</i> [2023065](33)
Security communication and energy efficiency optimization strategy in UAV-aided edge computing.....	
.....	<i>YU Xueyong, QIU Lixiang, SONG Jianing, ZHU Hongbo</i> [2023032](45)
Optical quantum positioning method based on random resampling of scattering free path	
.....	<i>ZHOU Mu, ZHANG Jing, WANG Yong, YANG Xiaolong, LI Lingxia</i> [2023053](55)
Blockchain network layer anomaly traffic detection method based on multiple classifier integration.....	
.....	<i>DAI Qianyi, ZHANG Bin, GUO Song, XU Kaiyong</i> [2023066](66)
Simultaneous vehicular location and velocity detection towards 6G integrated communication and sensing.....	
.....	<i>ZHOU Bingpeng, MA Shanshan</i> [2023041](81)
CHA: cross-chain based hierarchical architecture for practicable blockchain regulatory	
.....	<i>JING Pujie, WANG Liangmin, DONG Xuwen, ZHANG Yushu, WANG Qian, Muhammad Sohail</i> [2023038](93)
Objective assessment of communication speech interference effect based on feature fusion.....	
.....	<i>LIN Yun, XU Huaitao, WANG Sen, ZHANG Sicheng, ZHUANG Long</i> [2023043](105)
Cyber attacks and privacy protection distributed consensus algorithm for multi-agent systems.....	
.....	<i>XU Ming, ZHANG Baojun, WU Yiming, YING Chenduo, ZHENG Ning</i> [2023049](117)
Reconstruction of LDPC code check matrix based on random extraction at high bit error rate	
.....	<i>WANG Zhongyong, LI Zhenghao, GONG Kexian, SUN Peng, LI Qingtao</i> [2023062](128)
Construction of new even-length type-II Z-complementary pair	
.....	<i>CHEN Xiaoyu, SUN Lianfeng, ZHANG Jiekun, LI Yubo</i> [2023052](138)
Topology prediction for opportunistic network based on spatiotemporal convolution.....	
.....	<i>SHU Jian, SHI Jiawei, LIU Linlan, Manar Al-Kali</i> [2023060](145)
Conflict evidence combination method based on clustering weighting	
.....	<i>DONG Yu, ZHANG Youpeng</i> [2023029](157)
Distributed audit causal consistency model based on biased stability.....	
.....	<i>TIAN Junfeng, YANG Qianyu, Jitian Xiao</i> [2023059](164)
Adaptor signature scheme based on ISRSAC digital signature algorithm.....	
.....	<i>ZHANG Yanshuo, LIU Ning, YUAN Yuqi, YANG Yatao</i> [2023056](178)
Research on efficient and secure cross-domain data sharing of IoV under blockchain architecture	
.....	<i>LIU Xuejiao, CAO Tiancong, XIA Yingjie</i> [2023031](186)

Correspondences

Deep image semantic communication model for 6G.....	<i>JIANG Feibo, PENG Yubo, DONG Li</i> [2023050](198)
Robust feature selection method via joint low-rank reconstruction and projection reconstruction.....	
.....	<i>YI Shuangyan, LIANG Yongsheng, LU Jingjing, LIU Wei, HU Tao, HE Zhenyu</i> [2023061](209)
Security analysis of public-key cryptosystems based on matrix action problem against quantum attack.....	
.....	<i>HUANG Huawei</i> [2023064](220)