



ISSN 1002-0802
CN 51-1167/TN

通信技术[®]

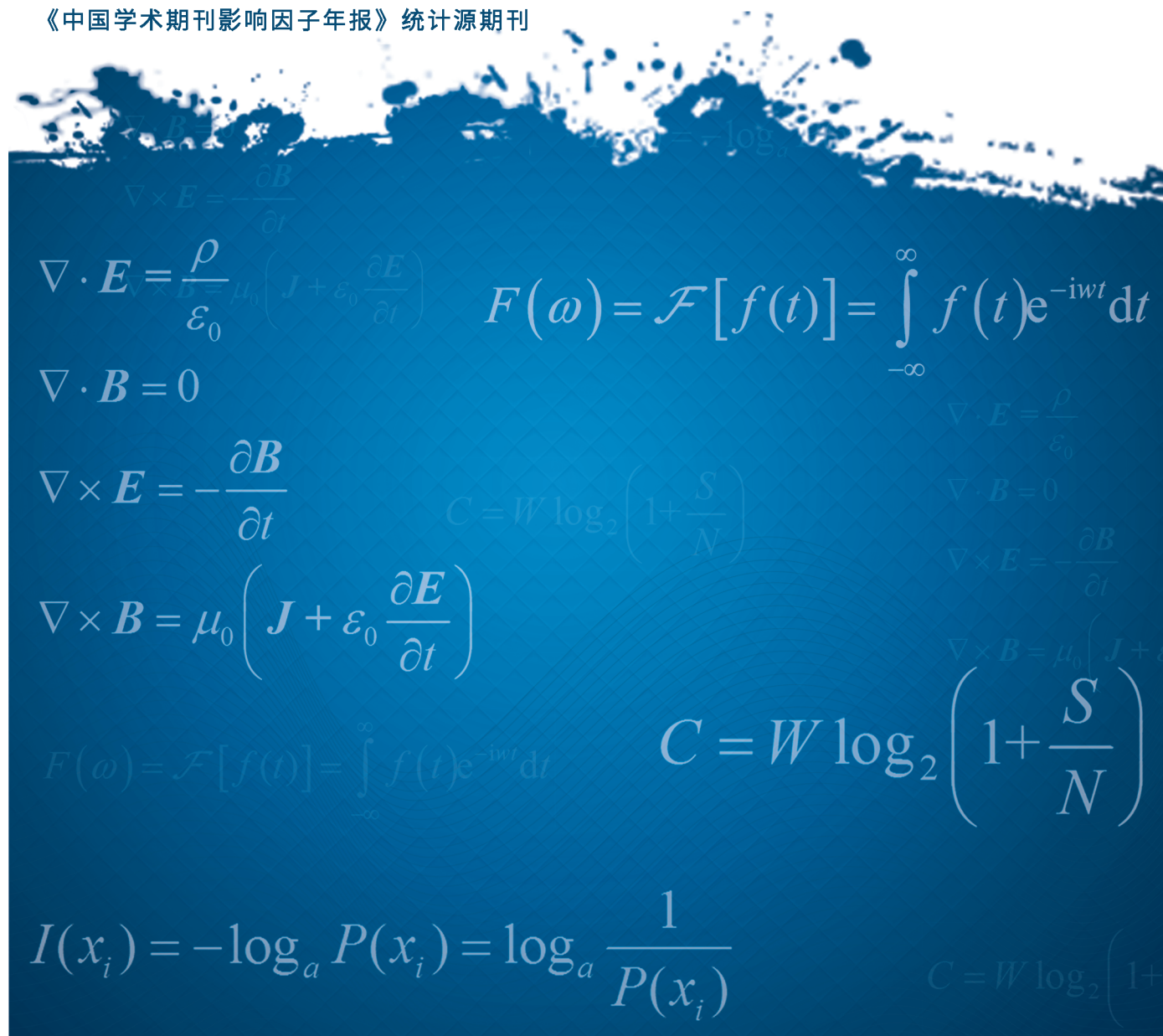
Communications Technology

(月刊)

全国中文核心期刊 (2004版)

工信部2009—2010年度科技期刊规范化优秀奖

《中国学术期刊影响因子年报》统计源期刊

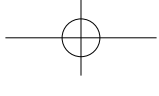


2022/1

第55卷 第1期 总第361期

中国电子科技集团公司第三十研究所

万方数据



通信技术

Tongxin Jishu
(1967 年创刊, 月刊)

第 55 卷 第 1 期 (总第 361 期)

2022 年 1 月

目 次

综 述

新一代应急通信系统发展展望..... 周雄伟 (1)

信息处理与传输

基于面元法的陆海交界复合粗糙面电磁散射研究..... 蒋天瑜, 谭陆媛, 杨 伟, 胥 桓, 任祥维 (7)

基于 USRP2920 与差分能量检测的双门限频谱感知算法实现..... 崔翠梅, 秦贵秋, 吴秋怡 (14)

基于多帧聚合的物理层安全技术优化设计..... 赵梓琪, 郑寒雨, 周 钠, 衣龙腾, 郑 重 (21)

5G 新空口 LDPC 码的快速编码算法..... 吴 熹, 唐嘉麒, 阳旭艳 (30)

图像与问题双引导注意力机制视觉问答算法..... 陈 婷, 王玉德, 任志伟, 杨 昊, 高张弛 (36)

网络与系统

混合式无线传感器网络动态调度及功率控制方法的研究..... 张 磊 (43)

超短波电台频谱动态博弈接入算法..... 詹 菲, 贾 斌, 潘雅茹 (49)

中继式无人机自组网安全协议研究..... 李 良, 杨 竞, 陶建军, 王小骥, 刘星江 (58)

TETRA 通信与干扰信号智能识别技术..... 黄天禹, 李雨锴, 杨 萌 (63)

云网融合场景下的传输网络架构探讨..... 吴佳驷, 刘 恒 (70)

安全与保密

一种基于并行化 OPPRF 的隐私集合交集协议..... 李 顺 (77)

基于虚拟区域划分的位置隐私保护算法..... 李金龙, 彭珊珊, 马程鹏, 湛达昕, 王安帮, 李凤银 (82)

一种针对加密流量中邮箱异常通信行为的检测技术..... 熊 竹, 周顺良, 代先勇, 王 炜, 熊 氏 (86)

一种涉密场所物理信息泄漏风险评估办法..... 张 岩, 郇 峰, 边永亮, 郑 瑾, 化腾飞 (95)

TLS 会话复用的客户端安全分析与改进措施..... 代 霞, 黄劲松 (100)

工程与应用

基于大数据的安防体系建设研究和实践..... 余文杰, 冯中华, 万 抒 (106)

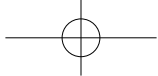
身份与访问管理技术在智慧城市的应用..... 史晓婧, 朱晓璐 (116)

基于网络行为的强制访问技术在铁路客票系统中的应用..... 姚 倩, 宋 晶, 戚建淮 (122)

运营商级 SD-WAN 综合网管系统的创新实践..... 钱 雁, 张 慷, 徐海峰, 颜永明, 张 玲 (127)

其 他

征稿启事..... (封三)



COMMUNICATIONS TECHNOLOGY

(Monthly,Started in 1967)

Vol.55

No.1

(Series No.361)

Jan.2022

CONTENTS

Technical Overview

Developing New Generation Emergency Communication System ZHOU Xiongwei (1)

Information Processing & Transmission

Electromagnetic Scattering of Complex Rough Surface at Land–Sea Interface based on Facet Method
.....JIANG Tianyu, TAN Luyuan, YANG Wei, XU Huan, REN Xiangwei (7)

Implementation of Double–Threshold Spectrum Sensing based on USRP2920 and Differential Energy Detection
..... CUI Cuimei, QIN Guiqiu, WU Qiuyi (14)

Optimization and Design of Physical Layer Security Technology based on Multi–frame Aggregation Coding
..... ZHAO Ziqi, ZHENG Hanyu, ZHOU Na, YI Longteng, ZHENG Zhong (21)

Fast Encoding Algorithm for 5G New Radio LDPC Code WU Xi, TANG Jiaqi, YANG Xuyan (30)

Visual Question Answering Algorithm based on Dual–Guided Attention Mechanism of Image and Question
..... CHEN Ting, WANG Yude, REN Zhiwei, YANG Hao, GAO Zhangchi (36)

Network & System

Research on Dynamic Scheduling and Power Control in Hybrid Wireless Sensor Networks..... ZHANG Lei (43)

Dynamic Game Access of VHF Radio Spectrum ZHAN Fei, JIA Bin, PAN Yaru (49)

Research on Security Protocol of Relay UAV Ad Hoc Network LI Liang, YANG Jing, TAO Jianjun, WANG Xiaojì, LIU Xingjiang (58)

TETRA Communication and Interference Signal Intelligent Identification Technology HUANG Tianyu, LI Yukai, YANG Meng (63)

Discussion on the Evolution of Transmission Network in Cloud Network Integration Scenarios WU Jialu, LIU Heng (70)

Security & Privacy

A Private Set Intersection Protocol based on Parallelized OPPRF LI Shun (77)

Location Privacy Protection Algorithm based on Virtual Area Division
..... LI Jinlong, PENG Shanshan, MA Chengpeng, ZHAN Daxin, WANG Anbang, LI Fengyin (82)

A Technique for Detecting Unusual E–mail Behaviors in Encrypted Traffic
..... XIONG Zhu, ZHOU Shunliang, DAI Xianyong, WANG Wei, XIONG Min (86)

A Risk Assessment Method for Physical Information Breaches in Confidential Sites
..... ZHANG Yan, HUAN Feng, BIAN Yongliang, ZHENG Jin, HUA Tengfei (95)

Client Security Analysis for TLS Session Resumption and Improvement Measures DAI Xia, HUANG Jinsong (100)

Engineering & Application

Research and Practice of Security Protection System Construction based on Big Data..... YU Wenjie, FENG Zhonghua, WAN Shu (106)

Implementation of Identity and Access Management Technology in Smart City SHI Xiaojing, ZHU Xiaolu (116)

Application of Network Action–based Access Control Technology in Railway Ticket System YAO Qian, SONG Jing, QI Jianhuai (122)

Innovative Practice of Operator Level Sd–Wan Integrated Network Management System
..... QIAN Yan, ZHANG Kang, XU Haifeng, YAN Yongming, ZHANG Ling (127)

Miscellaneous

Contributions Invited (Inside Back Over)