

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

通信技术[®]

Communications Technology

2018 2018年5月 第51卷
第5期 总第317期

ISSN 1002-0802



ISSN 1002-0802 CN51-1167/TN

邮发代号: 62-304



欢迎扫码

万方数据

通信技术

Tongxin Jishu
(1967 年创刊, 月刊)

第 51 卷 第 5 期 (总第 317 期)

2018 年 5 月

目 次

信息处理与传输

大规模 MIMO 上行链路的信号检测方法	尹柏强, 汪红梅, 何怡刚 (997)
基于时变信道和射频非理想性补偿算法结合的大规模 MIMO 信道互易性研究	邢移单 (1003)
基于贪婪搜索的 RC-LDPC 编码序列打孔算法研究	马 慧, 吴彦鸿, 王宏艳 (1010)
一种基于射影平面的高维等角紧框架	朱 皓, 唐川雁 (1016)
基于软件无线电平台的 DDST 传输技术研究	杨培消, 窦高奇, 高 俊, 陈 盈 (1021)
超宽带信号的快速匹配追踪算法	沈子钰, 褚杭柯, 唐川雁 (1026)
基于广义互相关的时延估计算法研究	朱 超, 屈晓旭, 姜景艺 (1030)
一种改进的认知无线电调制识别方法研究	胡宗恺, 熊 刚 (1036)
基于独立分量分析的混合信号盲分离技术	王雁涛, 吉 磊 (1041)
基于光栅相移效应的 Littrow 激光器的无跳模调谐	周长帅, 王海龙, 龚 谦, 荣春朝, 严进一, 杨维凯 (1045)
下一代移动通信环境下多天线信道建模的研究	卢明乔 (1050)
基于对称压缩 MUSIC 的相干源方位估计方法	徐 姝, 梁仕杰 (1055)
半监督模糊聚类算法的研究与改进	白福均, 高建瓴, 宋文慧, 贺思云 (1061)

网络与系统

基于航空网络的无线黑匣子系统设计	黄姗姗, 张 驰 (1066)
水下信息传输网及其关键技术分析研究	杨 帆 (1073)
基于负载分布空间的网络相继故障模型	杨宇骥, 陈帅年 (1082)
基于三阶段双向中继系统的功率分配问题研究	张勇建, 贺玉成, 周 林 (1091)
基于 LTE-A 系统的无线移动中继系统切换算法	杜 婷, 程 浩 (1097)
一种高聚类无标度网络中的混合路由策略	徐玉珠 (1103)
SDN 网络 IPv6 组播机制研究	李 丹, 秦 华 (1110)
一种基于 SDN 的服务器负载均衡方案	唐月婷, 蒋朝惠 (1117)
资源预覆盖自动路由检索系统设计与研发	喻 敏 (1123)

TD-LTE 网络大规模 MIMO 深度覆盖解决方案 王楚锋, 罗新军 (1128)

基于 ROADM 技术的本地 OTN 网络部署策略研究 范璐璐, 于 嘉 (1132)

话音调度平台研究及业务流程优化..... 柯昌骏, 杨鲤源, 许道峰, 田少鹏, 马 义 (1136)

基于物联网技术的 PM2.5 监测系统 史姣姣, 张泽胜 (1142)

安全与保密

基于用户命令序列的伪装入侵检测..... 汤雨欢, 施 勇, 薛 质 (1148)

基于 PSO 优化 LS-SVM 算法的网络空间态势预测研究 陈维鹏, 敖志刚, 屠义强, 郭 杰, 叶春雷, 童 俊 (1154)

一种基于假设检验的端口扫描引擎调优方法..... 孙耀辉, 贺 劼, 齐 权 (1161)

S 波段非线性结探测技术研究 邓 曦, 邢 军, 丁建锋, 宋 滔 (1165)

基于人工噪声与密钥矩阵的物理层安全算法..... 吴 游, 武汉卿, 陶文俊 (1170)

一种基于 IPSec 实现 SIP 通信安全的方法 张鹤鸣, 陈南洋 (1175)

网络论坛口令的安全分析..... 杜 薇, 张李军, 张爱丽 (1179)

基于 SPN 最小割集的信息系统非技术性安全管理方法 令狐金花, 潘 平, 杜瑶瑶 (1185)

一种配电 SCADA 通信安全防护系统的设计 康荣保, 张 晓, 张旭博 (1193)

工程与应用

基于垂直镜面 RCS 减缩的周期结构弯曲性能探究及设计 王利云, 张国瑞, 周佩珩 (1199)

微带栅格阵列天线分析..... 温 彬 (1205)

大型相控阵天线阵面远场校正方法..... 杜 艳 (1209)

基于 5G 频段的发夹型滤波器设计 李佳旺, 王毅敏, 黄钰鹏 (1212)

用 CCCCTA 设计跳频滤波器 马一山, 曾以成 (1217)

一种高速跳频通信系统发射功率自动控制方法..... 陆 阳, 赵敏丞 (1223)

一种适用于空间信息处理平台的抗单粒子翻转技术研究..... 王苏灵, 谢永春, 江 卫 (1228)

基于移动平台的微应用开发框架技术的研究与应用..... 蔡 璟, 丁宗银 (1232)

其 他

征稿启事..... (封三)

COMMUNICATIONS TECHNOLOGY

(Monthly, Started in 1967)

Vol.51

No.5

(Series No.317)

May.2018

CONTENTS

Information Processing & Transmission

- Decoupled Signal Detection for Uplink of Massive MIMO *YIN Bai-qiang, WANG Hong-mei, HE Yi-gang* (997)
- Massive MIMO Channel Reciprocity based on Combination of Time-Varying Channel and RF Non-Ideality Compensation Algorithm
..... *XING Yi-dan* (1003)
- Puncturing Algorithm for RC-LDPC Coding Sequence based on Greedy Search *MA Hui, WU Yan-hong, WANG Hong-yan* (1010)
- High-Dimensional Equiangular Tight Frame based on Projective Plane *ZHU Hao, TANG Chuan-yan* (1016)
- Research on DDST Transmission Technology Based on Software Radio Platform
..... *YANG Pei-xiao, DOU Gao-qi, GAO Jun, CHEN Ying* (1021)
- Fast Matching Tracking Algorithm for UWB Signals *SHEN Zi-yu, CHU Hang-ke, TANG Chuan-yan* (1026)
- Time-Delay Estimation Algorithm based on Generalized Cross-Correlation *ZHU Chao, QU Xiao-xu, LOU Jing-yi* (1030)
- Modified Modulation Recognition Method for Cognitive Radio *HU Zong-kai, XIONG Gang* (1036)
- Blind Separation of Mixing Signals based on Independent Component Analysis *WANG Yan-tao, JI Lei* (1041)
- Mode-hop-free Tuning of Littrow Lasers based on Grating Phase-Shift Effect
..... *ZHOU Chang-shuai, WANG Hai-long, GONG Qian, RONG Chun-chao, YAN Jin-yi, YANG Wei-kai* (1045)
- Exploration on MIMO Channel Modeling in Next-Generation Mobile Communication Environment *LU Ming-qiao* (1050)
- Azimuth Estimation Method for Coherent Source based on Symmetric Compression MUSIC *XU Shu, LIANG Shi-jie* (1055)
- Exploration and Improvement of Semi-supervised Fuzzy Clustering Algorithm
..... *BAI Fu-jun, GAO Jian-ling, SONG Wen-hui, HE Si-yun* (1061)

Network & System

- Wireless Flight Recorder based on Inter-Aircraft Communication Network *HUANG Shan-shan, ZHANG Chi* (1066)
- Discussion on Key Technologies of Underwater Information Transmission Network *YANG Fan* (1073)
- Network Cascading-Failures Model based on Load-Distribution Space *YANG Yu-qi, CHEN Shuai-nian* (1082)
- Exploration on Power Allocation based on Three-phase Two-way Relay System *ZHANG Yong-jian, HE Yu-cheng, ZHOU Lin* (1091)
- Handover Algorithm for Wireless Mobile Relay System based on LTE-A System *DU Ting, CHENG Hao* (1097)
- Mixed Routing Strategy in Scale-free Networks with High Clustering *XU Yu-zhu* (1103)
- Research on IPv6 Multicast Mechanism in SDN Network *LI Dan, QIN Hua* (1110)
- Server Load-Balancing Scheme based on SDN *TANG Yue-ting, JIANG Chao-hui* (1117)
- Design and Development of Network-Resource Pre-Coverage Automatic-Route Retrieving System *YU Min* (1123)
- Depth-Coverage Solution for Massive MIMO based on TD-LTE *WANG Chu-feng, LUO Xin-jun* (1128)

Local OTN Network Deployment Strategy based on ROADM Technology	FAN Lu-lu, YU Jia (1132)
Voice Scheduling Platform and Improvement of Operation-Process Optimization	KE Chang-jun, YANG Li-yuan, XU Dao-feng, TIAN Shao-peng, MA Yi (1136)
PM2.5 Monitoring System based on IoT	SHI Jiao-jiao, ZHANG Ze-sheng (1142)

Security & Privacy

Masquerade Intrusion Detection based on User Command Sequence	TANG Yu-huan, SHI Yong, XUE Zhi (1148)
Research on Prediction of Network Space Combat Situation Based on PSO Optimized LS-SVM Algorithm	CHEN Wei-peng, AO Zhi-gang, TU Yi-qiang, GUO Jie, YE Chun-lei, TONG Jun (1154)
Optimized Port Scanning Method based on Hypothesis Testing	SUN Yao-hui, HE Jie, QI Quan (1161)
Exploration on S-Band Nonlinear Junction Detection Technology	DENG Xi, XING Jun, DING Jian-feng, SONG Tao (1165)
Physical-Layer Security Algorithm Based on Artificial Noise and Key Matrix	WU You, WU Han-qing, TAO Wen-jun (1170)
Implementation of SIP Communication Security based on IPSec	ZHANG He-ming, CHEN Nan-yang (1175)
Password Security Analysis of Network Forums	DU Wei, ZHANG Li-Jun, ZHANG Ai-Li (1179)
Non-technical Security Management of Information System based on SPN Minimum Cut Set	LINGHU Jin-hua, PAN Ping, DU Yao-yao (1185)
Design of Distribution SCADA Communication Security System	KANG Rong-bao, ZHANG Xiao, ZHANG Xu-bo (1193)

Engineering & Application

Exploration and Design of Periodic Structure Bending Performance based on Vertical Mirror RCS Reduction	WANG Li-yun, ZHANG Guo-rui, ZHOU Pei-heng (1199)
Analysis of Micro-Strip Wire-Grid Array Antenna	WEN Bin (1205)
Array Calibration of Large-Scale Phased-Array Antenna in Far Field	DU Yan (1209)
5G Band-based Design of Hairpin Filter	LI Jia-wang, WANG Yi-min, HUANG Yu-peng (1212)
Design of Frequency Agile Filter with CCCCTA	MA Yi-shan, ZENG Yi-cheng (1217)
Automatic Control Method for Power-Amplifier Transmission Power in High-Speed Frequency-Hopping Communication System	LU Yang, ZHAO Min-cheng (1223)
Anti SEU Technology for Spatial Information Processing Platform	WANG Su-ling, XIE Yong-chun, JIANG Wei (1228)
Exploration and Application of Micro-Application Development Framework based on Mobile Platform ...	CAI Jing, DING Zong-yin (1232)

Miscellaneous

Contributions Invited	(Inside Back Over)
-----------------------------	--------------------