



CSCD核心期刊  
中文核心期刊  
RCCSE中国核心学术期刊

ISSN 1673-825X  
CN 50-1181/N  
CODEN CYDXA4



# 重庆邮电大学学报

自然科学版

**JOURNAL OF CHONGQING  
UNIVERSITY OF  
POSTS AND  
TELECOMMUNICATIONS**

NATURAL SCIENCE EDITION

中国·重庆  
CHONGQING CHINA

ISSN 1673-825X



9 771673 825061

第29卷 第4期  
Vol.29 No.4

2017.4

# 重庆邮电大学学报(自然科学版)

第29卷第4期

2017年8月

## 目次

### ※通信与电子※

- 基于信噪比排序的 MIMO-OFDM 信号检测方法 ..... 郑建宏,李玉菱,龚明苇,等(427)
- 多通道并行 TD-LTE 小区搜索架构设计与 FPGA 实现 ..... 蒋青,卢伟,江宇航,等(433)
- 应用于 LTE 基站的 L 波段 Doherty 放大器 ..... 王斌,熊梓丞,张鑫(441)
- 基于移动网络匹配投影点活跃度的路段动态划分方法 ..... 彭大芹,刘艳林,赖香武,等(446)
- EKF 在新的导航系统中的仿真研究 ..... 付承彪,田安红,张桂明,等(454)
- MAP-WFRFT 卫星信号星座隐蔽特性研究 ..... 张喆,达新宇,刘慧军(460)
- 基于模数哥隆尺的新颖 eALT-QC-LDPC 码构造方法 ..... 李玲香,李季碧,邵金侠(468)
- 基于 QC-LDPC 码的联合信源信道编码研究 ..... 王海丽,黎勇(474)
- 面向航空集群网络的改进型 AODV 路由协议 ..... 张步硕,陈柯帆,迟晓燕,等(480)
- 移动场景下一种可见光通信系统的设计与实现 ..... 尹浩浩,董雨晴,邹倩,等(487)
- 基于声表面波谐振器的三维纳米团簇敏感薄膜关键技术研究 ..... 漆晶,文玉梅,李平(494)
- 时域电磁探测发射机损耗及热分析设计 ..... 黄江波,付炜,付志红(500)

### ※计算机与自动化※

- 细节增强的多功能混合体绘制光照模型 ..... 秦红星,董明杰,马跃(508)
- 基于模糊熵评价和最优搜索的自动对焦算法 ..... 刘书炘,刘满华(514)
- 基于 K-medoids 项目聚类的协同过滤推荐算法 ..... 王永,万潇逸,陶娅芝,等(521)
- 面向单目标优化的集成粒子群算法 ..... 何莉,王森,李博(527)
- 基于攻击图的 APT 脆弱节点评估方法 ..... 黄永洪,吴一凡,杨豪璞,等(535)
- 面向多敏感属性的匿名隐私保护方法 ..... 张荣庆,徐光侠(542)
- 基于一阶低通滤波器滑模反步法的直流电机位置控制 ..... 奚文龙,唐文秀,许李尚,等(550)
- 基于机器视觉的目标跟随六足机器人 ..... 易诗,张磊,谢子琼,等(557)
- 药品及其包装对超高频 RFID 标签性能的影响 ..... 刘飞,吕新广(563)
- “未来网络与智能应用”专刊征稿启事 ..... 封三

期刊基本参数: CN50-1181/N \* 1988 \* b \* A4 \* 144 \* zh + en \* P \* 12.00 \* 1000 \* 21 \* 2017-4

本期责任编辑:魏琴芳

本期英文编辑:王江

(版权归重庆邮电大学所有。本刊如有印装质量问题,请与本刊编辑部联系)

**Journal of Chongqing University of  
Posts and Telecommunications( Natural Science Edition)**  
**Vol.29 No.4 Aug.2017**

**Contents**

※ **Communications and Electronics** ※

- Signal detection method based on SNR sorting for MIMO-OFDM systems  
..... ZHENG Jianhong, LI Yuling, GONG Minwei, et al(427)
- Design and implementation of multi-channel based parallel cell search in TD-LTE networks using FPGA  
..... JIANG Qing, LU Wei, JIANG Yu-hang, et al(433)
- L-band Doherty amplifier for LTE base station ..... WANG Bin, XIONG Zicheng, ZHANG Xin(441)
- Dynamic division method of highway based on projection point activity of mobile network match  
..... PENG Daqin, LIU Yanlin, LAI Xiangwu, et al(446)
- Simulation study of EKF in new navigation system ..... FU Chengbiao, TIAN Anhong, ZHANG Guiming, et al(454)
- A study of the covered characteristics of MAP-WFRFT satellite signals ..... ZHANG Zhe, DA Xinyu, LIU Huijun(460)
- New construction method of the eALT-QC-LDPC code based on the modular Golomb rulers  
..... LI Lingxiang, LI Jibi, SAO Jinxia(468)
- Research on joint source and channel coding based on QC-LDPC code ..... WANG Haili, LI Yong(474)
- Improved AODV routing protocol for aeronautic swarm network ..... ZHANG Bushuo, CHEN Kefan, CHI Xiaoyan, et al(480)
- Design and implementation of a visible light communication system based on the mobile scenario  
..... YIN Haohao, DONG Yuqing, ZOU Qian, et al(487)
- Research on key technologies of 3D nano cluster sensitive film based on SAW resonator ..... QI Jing, WEN Yumei, LI Ping(494)
- Loss and thermal analysis and design of a time-domain electromagnetic detection transmitter  
..... HUANG Jiangbo, FU Wei, FU Zhihong(500)

※ **Computer and Automation** ※

- Detail enhanced versatile optical model for hybrid rendering of volume data ..... QIN Hongxing, DONG Mingjie, MA Yue(508)
- Auto-focusing algorithm based on fuzzy entropy evaluation and optimal search ..... LIU Shuxin, LIU Manhua(514)
- Collaborative filtering recommendation algorithm based on K-medoids item clustering .....  
..... WANG Yong, WAN Xiaoyi, TAO Yazhi, et al(521)
- Ensemble particle swarm optimizer for single objective optimization ..... HE Li, WANG Miao, LI Bo(527)
- Graph-based vulnerability assessment for APT attack ..... HUANG Yonghong, WU Yifan, YANG Haopu, et al(535)
- Method of anonymous privacy preserving for multi-sensitive attributes ..... ZHANG Rongqing, XU Guangxia(542)
- Position control of DC-motor based on one-order low pass filter backstepping sliding mode method  
..... XI Wenlong, TANG Wenxiu, XV Lishang, et al(550)
- Target following six-legged robot based on machine vision ..... YI Shi, ZHANG Lei, XIE Ziqiong, et al(557)
- Effects of drug and its packaging on the performance of UHF RFID tag ..... LIU Fei, LV Xinguang(563)

---

Executive Editor: WEI Qinfang  
English Editor: WANG Jiang