



CSCD来源期刊
中文核心期刊
RCCSE中国核心学术期刊
重庆市出版专项资金资助期刊

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



重庆邮电大学学报

CHONGQING YOUDIAN DAXUE XUEBAO

自然科学版

ZIRAN KEXUE BAN

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

NATURAL SCIENCE EDITION

中国·重庆
CHONGQING CHINA

ISSN 1673-825X



9 771673 825191

第31卷 第5期
Vol.31 No.5

2019.5

重庆邮电大学学报(自然科学版)

第 31 卷第 5 期

2019 年 10 月

目 次

※未来网络与智能应用※

(2018 年度重庆市出版专项资金资助项目)

- 大规模 MIMO 网络中基于时间反演的预编码技术 李方伟,孙晓健,张海波(585)
- 超密集异构网络中的一种混合资源分配方法 张海波,许云飞,栾秋季(593)
- 基于混沌二进制粒子群算法的认知无线电频谱分配策略 滕志军,谢露莹,滕利鑫,等(601)
- 基于 OpenFlow 的光与无线融合接入网控制架构 秦攀科,刘 涛,葛炳辉,等(609)
- 基于多源数据的出行安全时空评价模型研究 王茜竹,徐 瑞,江德潮,等(618)
- 基于梯度特征和信道编码的多特征鲁棒红外跟踪 骆焦煌(628)

※通信与电子※

- 无线智能电表信道路径损耗建模 郑建宏,张祥斌,赵栋生,等(635)
- 一种低副瓣稀布阵列天线的方向图综合算法 王新宽,王桂宝,贾建科(641)
- 基于等差数列与原模图的 QC-LDPC 码构造方法 袁建国,孙乐乐,范福卓,等(649)
- 比例公平保证下的 SCMA 能效资源分配研究 罗 菊,代云霞,袁 泉(655)
- 多小区大规模 MIMO 中基于角度域的导频分配策略 付天飞,梁 燕,兰海翔(663)
- 废墟环境 2.4 GHz 无线信道测量与时延扩展研究 孟 娟,洪 利,韩智明,等(674)
- 基于侧抑制系数的红外图像细节增强算法 代少升,张娟娟,余良兵,等(681)
- 基于预测和矢量量化的高光谱图像压缩算法 陈善学,张燕琪(688)

※计算机与自动化※

- 基于指数分布族的类特定文本分类算法 刘 云,黄荣乘(694)
- 基于粗糙集的分布式集值数据属性约简 胡 军,黄思妤,邵 瑞(702)
- 云计算中存储数据安全性研究 杨 杰,谭道军,邵金侠(710)
- 基于 RAID-6 的容量扩容布局研究 元 铸,谢 平,耿生玲,等(716)
- 基于骨干节点安全角色层级化的 WSN 安全模型 魏琴芳,袁岳义,胡向东(722)
- 基于分数信号处理的变步长自适应振动主动控制方法研究 杨晓京,胡俊文(729)
- 具有输入饱和约束的永磁同步电机伺服系统鲁棒有限时间控制 郭一军(737)

期刊基本参数: CN50-1181/N * 1988 * b * A4 * 160 * zh+en * P * 12.00 * 1000 * 21 * 2019-5

本期责任编辑: 刘 勇

本期英文编辑: 王 怡

(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.31 No.5 Oct.2019

Contents

※ Future Network and Intelligent Application ※

- Pre-coding technology of massive MIMO system based on time-reversal *LI Fangwei, SUN Xiaojian, ZHANG Haibo*(585)
- A hybrid resource allocation method in ultra-dense heterogeneous networks *ZHANG Haibo, XU Yunfei, LUAN Qiuji*(593)
- Spectrum allocation strategy of cognitive radio based on chaos logistic binary particle swarm optimization algorithm
..... *TENG Zhijun, XIE Luying, TENG Lixin, et al*(601)
- Access network control architecture for optical and wireless convergence based on OpenFlow
..... *QIN Panke, LIU Tao, GE Binghui, et al*(609)
- Research on the spatial-temporal evaluation model of travel safety based on multi-source data
..... *WANG Qianzhu, XU Rui, JIANG Dechao, et al*(618)
- Multiple-feature robust infrared tracking based on gradient feature and channel coding *LUO Jiaohuang*(628)

※ Communications and Electronics ※

- Modeling of channel pathloss in wireless smart meter *ZHENG Jianhong, ZHANG Xiangbin, ZHAO Dongsheng, et al*(635)
- An approach for pattern synthesis of low sidelobe sparse antenna arrays *WANG Xinkuan, WANG Guibao, JIA Jianke*(641)
- Construction method of QC-LDPC codes based on the arithmetic progression and protograph
..... *YUAN Jianguo, SUN Lele, FAN Fuzhuo, et al*(649)
- Research on SCMA energy efficiency resource allocation with proportional fairness guarantee
..... *LUO Ju, DAI Yunxia, YUAN Quan*(655)
- Pilot assignment strategy based on angle domain for multi-cell massive MIMO systems
..... *FU Tianfei, LIANG Yan, LAN Haixiang*(663)
- Channel measurement and delay spread for 2.4 GHz radio channel in ruins environment
..... *MENG Juan, HONG Li, HAN Zhiming, et al*(674)
- Infrared imagedetail enhancement algorithm based on lateral inhibition coefficient
..... *DAI Shaosheng, ZHANG Xiaoxiao, YU Liangbing, et al*(681)
- Hyperspectral image compression based on prediction and vector quantization *CHEN Shanxue, ZHANG Yanqi*(688)

※ Computer and Automation ※

- Class-specific text classification algorithm based on exponential family *LIU Yun, HUANG Rongcheng*(694)
- Rough set based attribute reduction for distributed set-valued data *HU Jun, HUANG Siyu, SHAO Rui*(702)
- Research on data security in cloud computing *YANG Jie, TAN Daojun, SHAO jinxia*(710)
- Research on capacity expansion based on RAID-6 *YUAN Zhu, XIE Ping, GENG Shengling, et al*(716)
- WSN security model based on hierarchical security roles of backbone nodes *WEI Qinfang, YUAN Yueyi, HU Xiangdong*(722)
- New variable step strategy for online secondary path modeling with fractional signal processing approach in active vibration
control systems *YANG Xiaoqing, HU Junwen*(729)
- Robust finite-time control of PMSW servo system with input saturation constraint *GUO Yijun*(737)