

ISSN 1001-2400  
CODEN XDKXEP



# 西安电子科技大学 学报

XI'AN DIANZI KEJI DAXUE XUEBAO

JOURNAL  
OF XIDIAN  
UNIVERSITY

2013

第40卷 第2期  
Vol.40 No.2

## 目 次

- 秩1约束下基于圆球的相机标定算法 ..... 贾 静, 吴成柯 (1)
- 异构多接入网并发传输的时延界分析及分流策略 ..... 马 骁, 盛 敏, 张 琰 (5)
- 适用于网络 LDPC 码的速率兼容算法 ..... 王静怡, 李 颖, 孙 岳 (13)
- 一种分层小波模型下的极光图像分类算法 ..... 杨 曜, 李 洁, 韩 冰, 高新波 (18)
- SC-FDMA 上行系统中一种频域迭代块 DFE 均衡方法 ..... 王秋才, 袁超伟, 张金波, 李映雪 (25)
- 距离扩展目标检测的正态分布检验算法 ..... 问 翔, 刘宏伟 (31)
- 电磁脉冲作用下二极管二次击穿电热特性 ..... 任兴荣, 柴常春, 马振洋, 杨银堂 (36)
- 考虑闭环稳定性的曲柄滑块机构集成设计 ..... 李素兰 (43)
- 一种实用的类电磁机制算法 ..... 姜建国, 王双记, 刘永青, 尚海豹, 朱溢能 (48)
- 一种业务关联的数据采集方法 ..... 盖炳帅, 王劲林, 刘 学 (54)
- 基于模糊控制和 MIMO 的 ad hoc 网络 STDMA 协议 ..... 李建东, 蔡雪莲, 张 瑜, 张 珍 (60)
- 非凸泛函的图像分解 ..... 白 键, 冯象初 (67)
- 中继系统基于 QoS 保障的跨层优化设计 ..... 唐 伦, 张荣荣, 陈前斌 (72)
- 一种新的高速多目标检测及参数估计方法 ..... 郑纪彬, 符渭波, 苏 涛, 朱文涛 (82)
- 面向文本分类的中文文本语义表示方法 ..... 宋胜利, 王少龙, 陈 平 (89)

- 一种用于弱信号检测的广义 Keystone 变换算法 ..... 赵永波, 周晓佩, 王娟 (98)
- MIMO 雷达多目标多维参数估计预处理算法 ..... 秦国栋, 李鹏, 陈伯孝 (103)
- 锯齿波线性调频连续波信号的检测与参数估计 ..... 朱文涛, 郑纪彬, 苏涛, 朱凯然 (110)
- 一种基于正交空时块编码的单天线 AF 中继方案 ..... 李川, 刘伟 (117)
- MMSE 准则下部分周期数据的微多普勒参数估计 ..... 左磊, 李明, 张晓伟 (123)
- 一种基于数据矩阵重构的相干信源二维测向新方法 ..... 王凌, 李国林, 刘坚强, 毛维平 (130)
- 对地侦察卫星星座优化设计及仿真分析 ..... 韦娟, 张润 (138)
- 一种支持 LTE 语音业务的优先级半持续调度机制 ..... 卢美莲, 张锴 (142)
- 一种新型无源 UHF RFID 带隙基准电路 ..... 杜永乾, 庄奕琪, 李小明, 景鑫, 戴力 (148)
- 一种多光谱热成像系统作用距离的预测方法 ..... 刘鑫, 张建奇, 王晓蕊, 刘冬冬, 张福娣 (153)
- 小型宽带 GIS 局放检测内置天线设计 ..... 郭宏福, 许彩祥, 唐金锋, 付咪, 白丽娜 (159)
- 基于多集典型相关分析的雷达辐射源指纹识别 ..... 王磊, 史亚, 姬红兵 (164)
- 一种由智能终端控制的数据同步算法 ..... 李立亚, 胡晓红, 辛振国 (172)
- 一种自适应功率控制的信道预约多址接入协议 ..... 袁韵洁, 李波, 闫中江 (181)
- 高性能无数据辅助 QPSK 频偏估计新算法 ..... 张毅, 欧阳志新, 邓云凯, 王宇 (187)
- 利用概率结构稀疏模型实现信号重构的新算法 ..... 何宜宝, 毕笃彦 (194)
- 逐幸存序列算法引导的快速盲均衡算法 ..... 赵良, 汪春梅, 孙洪波 (201)
- 块对角化的最小均方误差几何均值分解矢量预编码 ..... 耿烜, 孙作雷, 刘峰, 马英红 (207)

## Contents

- Rank-1 constraint for camera calibration based on spheres ..... JIA Jing, WU Chengke (1)
- Delay bound analysis and splitting strategies of concurrent transmission in heterogeneous networks ..... MA Xiao, SEHGN Min, ZHANG Yan (5)
- Rate-compatible network LDPC codes ..... WANG Jingyi, LI Ying, SUN Yue (13)
- Wavelet hierarchical model for aurora images classification ..... YANG Xi, LI Jie, HAN Bing, GAO Xinbo (18)
- Frequency domain iterative block DFE for SC-FDMA uplink system ..... WANG Qiucai, YUAN Chaowei, ZHANG Jinbo, LI Yingxue (25)
- Normal-distribution-test algorithm for range spread target detection ..... WEN Xiang, LIU Hongwei (31)
- Electrothermal characteristics of second breakdown in diodes under the EMP stress ..... REN Xingrong, CHAI Changchun, MA Zhenyang, YANG Yintang (36)
- Integrated design method considering closed-loop stability for the slider-crank mechanism ..... LI Sulan (43)
- Practical electromagnetism-like mechanism algorithm ..... JIANG Jianguo, WANG Shuangji, LIU Yongqing, SHANG Haibao, ZHU Yineng (48)
- Service-related data sampling methodology ..... GAI Bingshuai, WANG Jinlin, LIU Xue (54)
- STDMA protocol based on fuzzy control and MIMO for ad hoc networks ..... LI Jiandong, CAI Xuelian, ZHANG Yu, ZHANG Zhen (60)
- Image decomposition using the non-convex functional ..... BAI Jian, FENG Xiangchu (67)
- Cross-layer optimization and design based on QoS guarantees in the relay system ..... TANG Lun, ZHANG Rongrong, CHEN Qianbin (72)
- Novel detection and parameters estimation of a high-speed multi-target ..... ZHENG Jibin, FU Weibo, SU Tao, ZHU Wentao (82)
- Chinese text semantic representation for text classification ..... SONG Shengli, WANG Shaolong, CHEN Ping (89)

- Generalized Keystone transform algorithm for dim moving target detection  
..... ZHAO Yongbo, ZHOU Xiaopei, WANG Juan (98)
- Pre-processing method for multi-dimension parameters estimation for the multi-target in the MIMO radar  
..... QIN Guodong, LI Peng, CHEN Baixiao (103)
- Detection and parameter estimation of sawtooth linear frequency modulated continuous wave signal  
..... ZHU Wentao, ZHENG Jibin, SU Tao, ZHUKairan (110)
- Simple single-antenna amplify-and-forward relaying scheme for orthogonal space-time block codes  
..... LI Chuan, LIU Wei (117)
- Micro-Doppler parameter estimation from a fraction of the period data with the MMSE criterion  
..... ZUO Lei, LI Ming, ZHANG Xiaowei (123)
- New method for estimating 2-D DOA in the coherent source environment based on data matrix reconstruction  
..... WANG Ling, LI Guolin, LIU Jianqiang, MAO Weiping (130)
- Optimization design and simulation analysis of earth reconnaissance satellite constellation  
..... WEI Juan, ZHANG Run (138)
- Priority semi-persisting scheduling scheme for voice over LTE service  
..... LU Meilian, ZHANG Kai (142)
- New type bandgap reference for UHF RFID tag  
..... DU Yongqian, ZHUANG Yiqi, LI Xiaoming, JING Xin, DAI Li (148)
- Method for predicting the operating range of multispectral thermal imaging systems  
..... LIU Xin, ZHANG Jianqi, WANG Xiaorui, LIU Dongdong, ZHANG Fudi (153)
- Design of a miniature broadband internal antenna for PD detection in GIS  
..... GUO Hongfu, XU Caixiang, TANG Jinfeng, FU Mi, BAI Li'na (159)
- Specific radar emitter identification using multiset canonical correlation analysis  
..... WANG Lei, SHI Ya, JI Hongbing (164)
- Data synchronization algorithm controlled by the intelligent terminal  
..... LI Liya, HU Xiaohong, XIN Zhenguo (172)
- Channel reservation MAC protocol with adaptive power control mechanism carrier sensing  
..... YUAN Yunjie, LI Bo, YAN Zhongjiang (181)
- New high performance non-data-aided frequency estimation and implementation of QPSK  
..... ZHANG Yi, OUYANG Zhixin, DENG Yunkai, WANG Yu (187)
- Signal reconstruction algorithm based on the probabilistic structured sparse model  
..... HE Yibao, BI Duyan (194)
- Fast blind equalization algorithm based on PSP  
..... ZHAO Liang, WANG Chunmei, SUN Hongbo (201)
- Block diagonalized MMSE GMD vector precoding  
..... GENG Xuan, SUN Zuolei, LIU Feng, MA Yinghong (207)