

# 电子与信息学报

DIANZI YU XINXI XUEBAO

第 33 卷 第 5 期

2011 年 5 月

## 目 次

### 论 文

- 一种基于生物地理优化的快速运动估计算法 ..... 张 萍, 魏 平, 于鸿洋 (1017)
- 一种基于飘动性分析的视频烟雾检测新方法 ..... 王 涛, 刘 渊, 谢振平 (1024)
- 基于局部线性嵌入的视频拷贝检测方法 ..... 聂秀山, 刘 璐, 孙建德, 秦丰林 (1030)
- 基于球面多区域划分的并行量子遗传算法 ..... 张 亮, 陆余良, 杨国正, 张 旻 (1035)
- 加窗灰度差直方图描述子及其对 SURF 算法的改进 .....  
..... 廉 茵, 李国辉, 田 昊, 徐树奎, 涂 丹, 王海涛 (1042)
- 快速核有监督局部保留投影算法 ..... 张 亮, 黄曙光, 郭 浩 (1049)
- 具有磁场效应的大间隔支持向量机 ..... 陶剑文, 王士同 (1055)
- 基于分等级对象语义图模型的复杂目标自动识别方法研究 ..... 孙 显, 付 琨, 王宏琦 (1062)
- 基于硬件加速的实时二值图像连通域标记算法 ..... 赵 菲, 张 路, 张志勇, 卢焕章 (1069)
- OQAM/OFDM 信号二阶循环平稳性分析 ..... 李剑强, 崔伟亮, 江 桦, 王 宁 (1076)
- 一种基于频域子带合成的多发多收高分辨率 SAR 成像算法 .....  
..... 邓云凯, 陈 倩, 祁海明, 郑慧芳, 刘亚东 (1082)
- 基于双变量模型和非下采样 Contourlet 变换的 SAR 图像相干斑抑制 ..... 贾 建, 陈 莉 (1088)
- 非均匀环境中的参量多通道目标检测 ..... 尚秀芹, 宋红军, 徐海胜, 郑经波 (1095)
- 多目标情况下IRST 和雷达的指示交接问题 ..... 张华睿, 杨宏文, 郁文贤 (1101)
- DBF-SAR 系统 1 bit 量化的可行性分析 ..... 黄杰文, 祁海明, 李 杨, 禹卫东 (1107)
- 柔性基线抖动对星载双天线 InSAR 系统性能的影响分析 ..... 王晓光, 王治强, 杨 新, 刘 薇 (1114)
- 基于脉内波束指向的相位中心多波束星载 SAR 系统接收端 DBF 处理 .....  
..... 李 杨, 齐维孔, 黄杰文, 禹卫东 (1119)
- 单通道最优恒模自适应干扰抑制方法 ..... 石庆研, 吴仁彪, 钟伦琰 (1126)
- 基于相位旋转的坐标交织分布式空时码 ..... 田心记, 袁超伟, 王秋才, 赵 伟 (1131)
- 分布式天线系统中的系统上行中断概率分析 ..... 王俊波, 王金元, 林 敏, 陈 明 (1136)
- 分布式 STBC-OFDM 交织深度优化 ..... 官 鹭, 邵士海, 唐友喜 (1141)
- 比例速率约束下 OFDMA 系统近似最优的资源分配算法 ..... 陈瑾平, 李春国, 杨绿溪 (1147)
- 室内分布发射天线 STBC 系统的发射天线位置优化 ..... 韩 亮, 邵士海, 唐友喜, 沈 莹 (1154)
- 基于标签识别码分组的连续识别防撞算法研究 ..... 张学军, 王 娟, 王锁萍 (1159)
- 一种基于 PN 序列加权前导的自适应 OFDM 符号同步算法 ..... 石 峰, 胡登鹏, 王 晨, 张尔扬 (1166)
- 认知无线网络基于空分复用的机会频谱接入 ..... 李 钊, 赵林靖, 刘 勤 (1172)
- 一种基于协作分集技术的切换机制 ..... 铁晓磊, 洪佩琳, 薛开平, 唐 浩 (1178)
- 物理层网络编码机会中继及中断性能分析 ..... 吉晓东, 郑宝玉 (1186)
- 基于二维虚拟空间平滑算法的跳频通信系统跟踪式干扰抑制研究 .....  
..... 尚佳栋, 王祖林, 郭旭静, 周 倩, 何善宝 (1193)
- 一种基于模糊熵的混沌伪随机序列复杂度分析方法 ..... 陈小军, 李 赞, 白宝明, 潘 玮, 陈清华 (1198)
- 标准模型下多个 PKG 的基于身份广义签密 ..... 冀会芳, 韩文报, 刘连东 (1204)
- 移动环境下 LBS 位置隐私保护 ..... 彭志宇, 李善平 (1211)
- 一种基于实体上下文和时间戳的信任预测模型 ..... 李 峰, 申利民, 司亚利, 穆运峰 (1217)

基于顺序统计的窄带通信辐射源指纹特征抽取方法 .....	唐智灵, 杨小牛, 李建东 (1224)
低功耗便携式数字音频广播收音机中 AAC LC 解码器的设计优化 .....	陆明莹, 张丽丽, 王国裕, 张红升, 李良威 (1229)
<b>研究简报</b>	
基于 NIST 评测的说话人分类及定位技术研究 .....	杨毅, 宋辉, 刘加 (1234)
语谱分析的 FPGA 实现 .....	孙红英, 杨鸿武, 陶中幸 (1238)
自适应组合型盲源分离算法及其优化方案 .....	欧世峰, 高颖, 赵晓晖 (1243)
机载高分辨聚束式 SAR 实时成像处理系统的 FPGA 实现 .....	周芳, 唐禹, 张佳佳, 邢孟道, 王玉 (1248)
基于粒子群优化的正交小波盲均衡算法 .....	胡苓苓, 郭业才 (1253)
零相关区阵列偶集的递归构造研究 .....	柯品惠, 张胜元 (1257)
基于拥塞预知的 WSN 多径寻优路由协议 .....	郝晓辰, 贾楠, 刘彬 (1261)
双系统密码技术下的身份型广播加密方案 .....	孙瑾, 胡子濮 (1266)

# JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY

Vol.33 No.5 May 2011

## CONTENTS

### Papers

- A Biogeography-based Optimization Algorithm for Fast Motion Estimation ..... Zhang Ping, Wei Ping, Yu Hong-yang (1017)
- Flutter Analysis Based Video Smoke Detection ..... Wang Tao, Liu Yuan, Xie Zhen-ping (1024)
- A LLE-based Video Copy Detection Method ..... Nie Xiu-shan, Liu Ju, Sun Jian-de, Qin Feng-lin (1030)
- Parallel Quantum Genetic Algorithm Using Sphere Multi-region Division ..... Zhang Liang, Lu Yu-liang, Yang Guo-zheng, Zhang Min (1035)
- Windowed Intensity Difference Histogram Descriptor and Its Application to Improving SURF Algorithm ..... Lian Lin, Li Guo-hui, Tian Hao, Xu Shu-kui, Tu Dan, Wang Hai-tao (1042)
- A Fast Kernel Supervised Locality Preserving Projection Algorithm ..... Zhang Liang, Huang Shu-guang, Guo Hao (1049)
- Maximal Margin Support Vector Machine with Magnetic Field Effect ..... Tao Jian-wen, Wang Shi-tong (1055)
- Hierarchical Objects Semantic Graph Based Hybrid Learning Method for Automatic Complicated Objects Recognition ..... Sun Xian, Fu Kun, Wang Hong-qi (1062)
- A Hardware Acceleration Based Algorithm for Real-time Binary Image Connected-component Labeling ..... Zhao Fei, Zhang Lu, Zhang Zhi-yong, Lu Huan-zhang (1069)
- Second-order Cyclostationarity Analysis of OQAM/OFDM Signals ..... Li Jian-qiang, Cui Wei-liang, Jiang Hua, Wang Ning (1076)
- A High-resolution Imaging Algorithm for MIMO SAR Based on the Sub-band Synthesis in Frequency Domain .... Deng Yun-kai, Chen Qian, Qi Hai-ming, Zheng Hui-fang, Liu Ya-dong (1082)
- SAR Image Despeckling Based on Bivariate Threshold Function in NSCT Domain ..... Jia Jian, Chen Li (1088)
- Parametric Multichannel Target Detection in Heterogeneous Environment ..... Shang Xiu-qin, Song Hong-jun, Xu Hai-sheng, Zheng Jing-bo (1095)
- The Handoff Method of IRST and Radar Under Multi-target Scenario ..... Zhang Hua-rui, Yang Hong-wen, Yu Wen-xian (1101)
- The Feasibility Analysis of One-bit Quantization for DBF-SAR ..... Huang Jie-wen, Qi Hai-ming, Li Yang, Yu Wei-dong (1107)
- Analysis of Spaceborne Dual-antenna InSAR System Characteristic Under Flexible Baseline Oscillation ..... Wang Xiao-guang, Wang Zhi-qiang, Yang Xin, Liu Wei (1114)
- Digital Beamforming for Single Phase Center Multi-beam Spaceborne SAR Based on Intrapulse Beamsteering ..... Li Yang, Qi Wei-kong, Huang Jie-wen, Yu Wei-dong (1119)
- Adaptive Interference Suppression Based on Single-channel Optimal Constant Modulus Algorithm ..... Shi Qing-yan, Wu Ren-biao, Zhong Lun-long (1126)
- Co-ordinate Interleaved Distributed Space-time Code Based on Phase Rotation ..... Tian Xin-ji, Yuan Chao-wei, Wang Qiu-cai, Zhao Wei (1131)
- System Uplink Outage Probability Analysis in Distributed Antenna Systems ..... Wang Jun-bo, Wang Jin-yuan, Lin Min, Chen Ming (1136)
- Optimal Interleaving Depth in STBC OFDM System with Distributed Transmit Antennas ..... Guan Lu, Shao Shi-hai, Tang You-xi (1141)
- Near-optimal Resource Allocation Algorithms for OFDMA Systems with Proportional Rate Constraints .....

(To be continued on inside back cover)

(Continued)

.....	<i>Chen Jin-ping, Li Chun-guo, Yang Lu-xi</i>	(1147)
Antenna Location Optimization for STBC with Distributed Transmit Antennas in an Indoor Environment .....	.....	
.....	<i>Han Liang, Shao Shi-hai, Tang You-xi, Shen Ying</i>	(1154)
An Uninterrupted Anti-collision Algorithm with ID-based Grouping for RFID System .....	.....	
.....	<i>Zhang Xue-jun, Wang Juan, Wang Suo-ping</i>	(1159)
An Adaptive Symbol Synchronization for OFDM Systems Based on PN Sequence-weighted Preamble .....	.....	
.....	<i>Shi Feng, Hu Deng-peng, Wang Chen, Zhang Er-yang</i>	(1166)
Space Division Multiplexing Based Opportunistic Spectrum Access in Cognitive Radio Network .....	.....	
.....	<i>Li Zhao, Zhao Lin-jing, Liu Qin</i>	(1172)
A Handover Mechanism Based on Cooperative Diversity .....	<i>Tie Xiao-lei, Hong Pei-lin, Xue Kai-ping, Tang Hao</i>	(1178)
Opportunistic Relaying and Outage Analysis for Physical-layer Network Coding .....	<i>Ji Xiao-dong, Zheng Bao-yu</i>	(1186)
Research of Tracking Interference Suppression in FH System Based on Two-dimensional Virtual Space Smoothing Algorithm .....	<i>Shang Jia-dong, Wang Zu-lin, Guo Xu-jing, Zhou Qian, He Shan-bao</i>	(1193)
A New Complexity Metric of Chaotic Pseudorandom Sequences Based on Fuzzy Entropy .....	.....	
.....	<i>Chen Xiao-jun, Li Zan, Bai Bao-ming, Pan Wei, Chen Qing-hua</i>	(1198)
Identity Based Generalized Signcryption Scheme for Multiple PKGs in Standard Model .....	.....	
.....	<i>Ji Hui-fang, Han Wen-bao, Liu Lian-dong</i>	(1204)
Protecting Location Privacy in Location-based Services in Mobile Environments .....	<i>Peng Zhi-yu, Li Shan-ping</i>	(1211)
A Trust Forecasting Model Based on Entity Context and Time Stamp .....	.....	
.....	<i>Li Feng, Shen Li-min, Si Ya-li, Mu Yun-feng</i>	(1217)
A Novel Method Base on Order Statistics for Extracting Fingerprint of Narrow Band Emitter .....	.....	
.....	<i>Tang Zhi-ling, Yang Xiao-niu, Li Jian-dong</i>	(1224)
AAC LC Decoder Design Optimization for Low-power Portable DAB Radio .....	.....	
.....	<i>Lu Ming-ying, Zhang Li-li, Wang Guo-yu, Zhang Hong-sheng, Li Liang-wei</i>	(1229)
<b>Research Notes</b>		
Speaker Diarization and Localization Technology Research Based on NIST Evaluation .....	.....	
.....	<i>Yang Yi, Song Hui, Liu Jia</i>	(1234)
Realization of Spectrogram Analysis with FPGA .....	<i>Sun Hong-ying, Yang Hong-wu, Tao Zhong-zing</i>	(1238)
Adaptive Combination Algorithm and Its Modified Scheme for Blind Source Separation .....	.....	
.....	<i>Ou Shi-feng, Gao Ying, Zhao Xiao-hui</i>	(1243)
Real-time Image Formation for Airborne High Resolution Spotlight SAR Based on FPGA .....	.....	
.....	<i>Zhou Fang, Tang Yu, Zhang Jia-jia, Xing Meng-dao, Wang Yu</i>	(1248)
An Orthogonal Wavelet Transform Blind Equalization Algorithm Based on the Optimization of Particle Swarm .....	<i>Hu Ling-ling, Guo Ye-cai</i>	(1253)
Study on the Recursive Constructions of Zero Correlation Zone Array Pairs Set .....	.....	
.....	<i>Ke Pin-hui, Zhang Sheng-yuan</i>	(1257)
Multi-Path Optimizing Routing Protocol Based on Predicting Congestion for Wireless Sensor Network .....	.....	
.....	<i>Hao Xiao-chen, Jia Nan, Liu Bin</i>	(1261)
Identity-based Broadcast Encryption Scheme Using the New Techniques for Dual System Encryption .....	.....	
.....	<i>Sun Jin, Hu Yu-pu</i>	(1266)