

电子与信息学报

DIANZI YU XINXI XUEBAO

第 33 卷 第 11 期

2011 年 11 月

目次

论 文

- 基于虚拟视点绘制失真估计的深度图帧内编码 张秋闻, 安平, 张艳, 张兆杨 (2541)
- 基于可逆整数时间域重叠变换的分类矢量量化图像编码 彭洲, 赵保军, 周刚 (2547)
- 基于多假设运动补偿去噪的迭代边信息改进算法 杨春玲, 马力 (2553)
- 一种适应高多普勒频偏的突发传输高效导频图案 姚思鑫, 乐天, 樊皓, 段巍, 蒋伟 (2559)
- 基于过时信道信息的多用户中继网络性能分析 郭卫栋, 刘璐, 陈赫, 刘玉玺, 张国伟 (2564)
- OFDMA Femtocell 网络中混合接入方式下的资源分配策略 张宝, 邱玲 (2569)
- IEEE 802.11 无线网络的两步指数退避算法 朱艺华, 徐晖, 彭静 (2575)
- 基于 Dechirp 和多相滤波结构的超宽带通信系统 赵亮, 金梁, 刘双平, 张剑, 杨梅樾 (2582)
- 模 2^n 数乘运算的差分性质研究 郑磊, 张少武, 张中亚 (2588)
- 一种基于 TCM 的信道编码与物理层网络编码的联合设计 陈志成, 郑宝玉, 吉晓东, 肖小潮 (2594)
- 无线 mesh 网络中基于效用最优的联合信道分配和功率分配算法 黄鑫, 冯穗力, 柯峰, 庄宏成 (2600)
- 三维移动 Ad hoc 网络链路动态性研究 郑博, 黄国策, 张衡阳 (2605)
- 解码前传半双工中继信道下协作 LDPC 码设计 陈紫强, 欧阳缮, 肖海林 (2610)
- 一种改进的 RA 译码算法 张敬毅, 金明录 (2616)
- 基于多元 LDPC 码扩展最小和译码的软信息迭代生成算法 何光华, 白宝明, 王雪鹏 (2622)
- 一种基于不等长时隙的射频识别防碰撞算法 李青青, 刘洪武, 张小林 (2628)
- 基于方向增强邻域窗和非下采样 Shearlet 描述子的非局部均值图像去噪 张小华, 陈佳伟, 孟红云, 焦李成, 孙翔 (2634)
- 基于贝叶斯假设检验的压缩感知重构 甘伟, 许录平, 苏哲, 张华 (2640)
- 实际 COSPAS-SARSAT 信号 TOA 估计算法研究 王堃, 吴嗣亮, 侯建刚 (2647)
- 一种适用于混响环境的双传声器自适应指向性算法 张云翼, 崔杰, 肖灵 (2652)
- 多视角下结合形状和运动信息的三维人体姿态估计 沈建锋, 杨文明, 廖庆敏 (2658)
- 计算机统一设备架构加速外部计算机断层图像重建 曾理, 倪凤岳, 刘宝东, 洪达平 (2665)
- 非局部学习字典的图像修复 李民, 程建, 李小文, 乐翔 (2672)
- 基于二维 Chirp-Z 变换的星载 TOPSAR 成像算法 徐伟, 邓云凯 (2679)
- 地球同步轨道 SAR 曲线轨迹模型下的改进 CS 成像算法 包敏, 周鹏, 保铮, 李亚超, 邢孟道, 王万林 (2686)
- 一种基于连接点的机载 InSAR 区域网 DEM 重建方法 姜丽敏, 陈曙暄, 向茂生 (2694)
- 一种基于混沌序列的随机离散频率编码信号 杨进, 邱兆坤, 黎湘, 庄钊文 (2702)
- 通道一致性误差对 InSAR 性能的影响分析 何志华, 何峰, 黄海风, 梁向农 (2709)
- 基于互相关的探地雷达反向投影成像算法 周琳, 粟毅 (2714)
- 宽带雷达 Chirp 回波的正交稀疏表示及其在压缩感知中的应用 高磊, 宿绍莹, 陈曾平 (2720)
- 旋转对称目标双基地一维距离像特性分析 艾小锋, 邹小海, 李永祯, 杨建华, 肖顺平 (2727)
- 基于快速支持向量聚类 and 相似熵的多参雷达信号分选方法 王世强, 张登福, 毕笃彦, 雍霄驹 (2735)
- 基于小波域自然影像统计特性的无参考遥感影像质量评价 张飞艳, 谢伟, 林立宇, 秦前清 (2742)

矩形波导纵向缝隙的矩量法分析	王绪存, 周以国	(2748)
用于低开销容错设计的存储部件可靠性评估研究	成 玉, 马安国, 蒋 江, 唐遇星, 张民选	(2753)
基于“包-电路交换”的片上网络回退转向路由算法		
..... 李 丽, 万 健, 王佳文, 潘红兵, 许 俊, 孙敏敏, 侯 宁		(2759)
面向移动图形顶点处理器的高性能低功耗定点特殊函数运算单元设计		
..... 焦继业, 穆 荣, 郝 跃, 刘有耀		(2764)
SOI 微型电场传感器的设计与测试	杨鹏飞, 彭春荣, 张海岩, 刘世国, 夏善红	(2771)
研究简报		
一种基于多标定体融合的超宽带虚拟孔径雷达系统校正方法 ..	王鹏宇, 周智敏, 宋 千, 金 添	(2775)
基于支持向量回归的腔体滤波器机电耦合建模与优化	周金柱, 黄 进, 薛 欣	(2780)
基于移动用户上下文相似度的协同过滤推荐算法	徐风苓, 孟祥武, 王立才	(2785)
金属介质混合目标散射分析的快速偶极子法	陈新蕾, 邓小乔, 李 茁, 牛臻弋, 顾长青	(2790)

JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY

Vol.33 No.11 Nov. 2011

CONTENTS

Papers

Depth Map Intra Coding Based on Virtual View Rendering Distortion Estimation	(2541)
..... Zhang Qiu-wen, An Ping, Zhang Yan, Zhang Zhao-yang	
Classified Vector Quantization Using Reversible Integer Time Domain Lapped Transform for Image Coding	(2547)
..... Peng Zhou, Zhao Bao-jun, Zhou Gang	
An Iterative Side Information Refinement Method Based on MHMCP Denoising in Distributed Video Coding	(2553)
..... Yang Chun-ling, Ma Li	
A Novel Pilot Structure for Burst Transmission under High Doppler Shift	(2559)
..... Yao En-xin, Le Tian, Fan Hao, Duan Wei, Jiang Wei	
Performances Analysis of Multiuser Relay Networks Based on Outdated Channel State Information	(2564)
..... Guo Wei-dong, Liu Ju, Chen He, Liu Yu-xi, Zhang Guo-wei	
Resource Allocation in Hybrid Access OFDMA Femtocell Networks	(2569)
..... Zhang Bao, Qiu Ling	
Two-step Backoff Algorithm for IEEE 802.11 Based Wireless Networks	(2575)
..... Zhu Yi-hua, Xu Hui, Peng Jing	
An UWB Communication System Based on Dechirp and Polyphase Filter Structure	(2582)
..... Zhao Liang, Jin Liang, Liu Shuang-ping, Zhang Jian, Yang Mei-yue	
Differential Characteristic Probability of Multiplied by Constant Operation on Modulo 2^n	(2588)
..... Zheng Lei, Zhang Shao-wu, Zhang Zhong-ya	
An Improved Joint Design of Physical Layer Network Coding and Channel Coding Based on Trellis Coded Modulation in Two-way Relay Channel	(2594)
..... Chen Zhi-cheng, Zheng Bao-yu, Ji Xiao-dong, Xiao Xiao-chao	
Jointly Channel Assignment and Power Allocation Algorithm Based on Utility Optimization for Wireless Mesh Networks	(2600)
..... Huang Xin, Feng Sui-li, Ke Feng, Zhuang Hong-cheng	
Link Dynamics in Three-dimensional Mobile Ad hoc Networks	(2605)
..... Zheng Bo, Huang Guo-ce, Zhang Heng-yang	
Cooperative LDPC Codes Design for Decode-and-forward Half-duplex Relay Channels	(2610)
..... Chen Zi-qiang, Ouyang Shan, Xiao Hai-ling	
An Improved Decoding Algorithm of Repeat Accumulate (RA) Codes	(2616)
..... Zhang Jing-yi, Jin Ming-lu	
An Iterative LLR Derivation Algorithm Based on Extended Min-sum Decoding of Non-binary LDPC Codes	(2622)
..... He Guang-hua, Bai Bao-ming, Wang Xue-peng	
An Anti-collision Algorithm Based on Unequal Timeslots in Radio Frequency Identification System	(2628)
..... Li Qing-qing, Liu Hong-wu, Zhang Xiao-lin	
A Non-local Means Filter Image Denoising with Directional Enhancement Neighborhood Windows and Non-subsampled Shearlet Feature Descriptors	(2634)
..... Zhang Xiao-hua, Chen Jia-wei, Meng Hong-yun, Jiao Li-cheng, Sun Xiang	
Bayesian Hypothesis Testing Based Recovery for Compressed Sensing ...	(2640)
..... Gan Wei, Xu Lu-ping, Su Zhe, Zhang Hua	
Research on TOA Estimation Algorithm for Actual COSPAS-SARSAT Signal	(2647)
..... Wang Kun, Wu Si-liang, Hou Jian-gang	
An Adaptive Dual-microphone Directional Algorithm for Reverberant Environment	(2652)
..... Zhang Yun-yi, Cui Jie, Xiao Ling	
Multiview 3D Human Pose Estimation with Shape and Motion Information	(2658)
..... Shen Jian-feng, Yang Wen-ming, Liao Qing-min	
Image Reconstruction of Exterior Computed Tomography Accelerated by Computer Unified Device Architecture	(2665)
..... Zeng Li, Ni Feng-yue, Liu Bao-dong, Hong Da-ping	
Image Inpainting Based on Non-local Learned Dictionary	(2672)
..... Li Min, Cheng Jian, Li Xiao-wen, Le Xiang	

(To be continued on inside back cover)

(Continued)

Imaging Algorithm of Spaceborne TOPSAR Data Based on Two-dimension Chirp-Z Transform	<i>Xu Wei, Deng Yun-kai</i>	(2679)
An Improved CS Imaging Algorithm for GEO SAR Based on Curve Trajectory Model	<i>Bao Min, Zhou Peng, Bao Zheng, Li Ya-chao, Xing Meng-dao, Wang Wan-lin</i>	(2686)
A Method for Airborne InSAR Block DEM Generation Based on Tie Points	<i>Jiang Li-min, Chen Shu-xuan, Xiang Mao-sheng</i>	(2694)
Random Discrete Frequency Coding Signal Based on Chaotic Series	<i>Yang Jin, Qiu Zhao-kun, Li Xiang, Zhuang Zhao-wen</i>	(2702)
Analysis of Channel Mismatch Error on InSAR Performance	<i>He Zhi-hua, He Feng, Huang Hai-feng, Liang Dian-nong</i>	(2709)
A Ground Penetrating Radar Back Projection Imaging Algorithm Based on Cross-correlation	<i>Zhou Lin, Su Yi</i>	(2714)
Orthogonal Sparse Representation for Chirp Echoes in Broadband Radar and Its Application to Compressed Sensing	<i>Gao Lei, Su Shao-ying, Chen Zeng-ping</i>	(2720)
Characteristic of Bistatic High-range Resolution Profiles of Rotational Symmetry Targets	<i>Ai Xiao-feng, Zou Xiao-hai, Li Yong-zhen, Yang Jian-hua, Xiao Shun-ping</i>	(2727)
Multi-parameter Radar Signal Sorting Method Based on Fast Support Vector Clustering and Similitude Entropy	<i>Wang Shi-qiang, Zhang Deng-fu, Bi Du-yan, Yong Xiao-ju</i>	(2735)
No-reference Remote Sensing Image Quality Assessment Based on Natural Scene Statistical in Wavelet Domain	<i>Zhang Fei-yan, Xie Wei, Lin Li-yu, Qin Qian-qing</i>	(2742)
Moment Method Analysis of Longitudinal Slot in a Rectangular Waveguide	<i>Wang Xu-cun, Zhou Yi-guo</i>	(2748)
Research on Reliability Evaluation of Memories for Low-cost Fault Tolerant Design	<i>Cheng Yu, Ma An-guo, Jiang Jiang, Tang Yu-xing, Zhang Min-xuan</i>	(2753)
NoC Retrograde-turn Routing Algorithm Based on Packet-circuit Switching	<i>Li Li, Wan Jian, Wang Jia-wen, Pan Hong-bing, Xu Jun, Sun Min-min, Hou Ning</i>	(2759)
High Performance and Low Power Fixed-point Special Function Unit for Mobile Vertex Processors	<i>Jiao Ji-ye, Mu Rong, Hao Yue, Liu You-yao</i>	(2764)
Design and Testing of a SOI Electric-field Microsensor	<i>Yang Peng-fei, Peng Chun-rong, Zhang Hai-yan, Liu Shi-guo, Xia Shan-hong</i>	(2771)
Research Notes		
A Calibration Method Based on Fusing Multiple Calibrators for Ultra Wide Band Virtual Aperture Radar System Using Stepped Frequency	<i>Wang Peng-yu, Zhou Zhi-min, Song Qian, Jin Tian</i>	(2775)
Modeling and Optimization for Electromechanical Coupling of Cavity Filters Based on Support Vector Regression	<i>Zhou Jin-zhu, Huang Jin, Xue Yin</i>	(2780)
A Collaborative Filtering Recommendation Algorithm Based on Context Similarity for Mobile Users	<i>Xu Feng-ling, Meng Xiang-wu, Wang Li-cai</i>	(2785)
Electromagnetic Scattering by Mixed Conducting and Dielectric Objects Analysis Using Fast Dipole Method	<i>Chen Xin-lei, Deng Xiao-qiao, Li Zhuo, Niu Zhen-yi, Gu Chang-qing</i>	(2790)