

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**

**2012**

**第39卷 第3期**  
**Vol.39 No.3**

目次

大间隙混合悬浮系统结构设计与特性分析  
..... 明正峰, 汶涛, 雷振亚, 文睿, 王浩 (1)

一种三维视频深度图像快速帧内编码方法  
..... 杨旭, 常义林, 霍俊彦, 元辉, 李兵兵, 陈涛 (7)

卫星基线斜置的星载三通道 SAR-DPCA 运动目标检测方法研究  
..... 夏猛, 杨小牛 (14)

WSN 中六边形集中式分簇多跳路由协议  
..... 李桢, 陈健, 阙永红 (20)

协作蜂窝小区上行链路的中继选择与功率分配  
..... 郭超平, 韩鹏, 张晚龙, 李勇朝, 张海林 (27)

漫游场景下 HeNB 和 WLAN 间的跨层无缝切换方案  
..... 赖成喆, 李晖, 张跃宇, 曹进 (34)

利用小波域 HMC 模型进行遥感图像变化检测  
..... 辛芳芳, 焦李成, 王桂婷, 万红林 (43)

一种贪婪自适应压缩感知重构  
..... 甘伟, 许录平, 张华, 苏哲 (50)

采用状态度量抽取和内插策略的低功耗 Turbo 译码器  
..... 李晓峰, 冯大政, 胡树楷 (58)

应用联合自聚焦实现低信噪比 ISAR 成像平动补偿  
..... 杨磊, 熊涛, 张磊, 邢孟道 (63)

一种求解任意构型双基 SAR 频谱的新方法  
..... 刘玉春, 王俊, 李红伟 (72)

一种高性能 CMOS 电流模 Winner-take-all 电路  
..... 戴力, 庄奕琪, 景鑫, 汤华莲 (80)

应变  $\text{Si}_{1-x}\text{Ge}_x(100)$  电子散射几率  
..... 赵丽霞, 张鹤鸣, 宣荣喜, 胡辉勇 (86)

具有单缓冲区的协同 GBN-ARQ 算法  
..... 董洛兵, 沈沛意, 易克初, 于全 (90)

边缘结构背景杂波尺度  
..... 李倩, 张建奇, 杨翠 (95)

CAVLC 熵编码器的 FPGA 高效实现	初秀琴, 吴 硕, 常 方, 贺文卿 (100)
大型阵列天线阻抗矩阵和散射矩阵的求解及应用	张 帅, 龚书喜, 关 莹, 龚 琦, 路 宝 (106)
竞争差分进化算法及其在共形阵综合中的应用	李 蕊, 史小卫, 徐 乐, 顾新桃, 李 平 (114)
利用高阻抗表面缩减天线雷达截面的新方法	龚 琦, 张 帅, 龚书喜, 焦永昌, 路 宝 (120)
潜在语义分析的供求信息自动匹配算法	冯月进, 张凤斌 (126)
OFDM 系统中优化的泛化复指数基扩展模型	张钦娟, 武穆清, 郭起霖, 张 瑞 (131)
P2P 流媒体直播系统自适应邻居节点选择算法	冯侦探, 倪 宏, 王劲林, 尤佳莉 (136)
利用大衍数列构造 QC-LDPC 码的方法	朱磊基, 汪 涵, 施玉松, 邢 涛, 王营冠 (144)
模式匹配与校验和相结合的 IP 协议识别方法	杨 洁, 刘聪锋 (149)
一种基于相关反馈的视频人脸算法	鲁 珂, 丁正明, 赵继东, 吴 跃 (154)
一种小型化宽带高增益 Metamaterial 贴片天线	刘 涛, 曹祥玉, 高 军, 杨 群, 李文强 (161)
异构网络多路径并行传输吞吐量建模	郑艳伟, 倪 宏, 刘 磊 (166)
有限反馈和信道时延下的协作多点传输	石俊峰, 张天魁, 曾志民 (172)
一种无线传感器网络节点互斥多径路由算法	杨俊刚, 史浩山, 段爱媛, 马 超, 王庆文 (178)
贝塞尔级数展开的机载前视阵雷达杂波谱补偿方法	姜 晖, 卢光跃 (185)
二次补偿开关型半导体激光温控电源设计	刘谈平, 王召巴, 刘伟奇 (190)
社会化标签系统语义相关度的拓扑图法计算	张昌利, 侯蓉晖 (196)
按比例控制呼叫阻塞率的动态带宽分配算法	赵海军, 李 敏, 崔梦天, 李明东 (202)
机械致单轴应变 SOI 晶圆的制备	戴显英, 王 琳, 杨 程, 郑若川, 张鹤鸣, 郝 跃 (209)

## Contents

Design and analysis of large displacement hybrid system	(1)
..... MING Zhengfeng, WEN Tao, LEI Zhenya, WEN Rui, WANG Hao	
Efficient intra-frame coding algorithm for the depth image in 3D video	(7)
..... YANG Xu, CHANG Yilin, HOU Junyan, YUAN Hui, LI Bingbing, CHEN Tao	
Study of three-channel spaceborne SAR-DPCA moving target detection with the slant-placed baseline	(14)
..... XIA Meng, YANG Xiaoniu	
Hexagonal centralized cluster-based multi-hop routing protocol for WSN	(20)
..... LI Zhen, CHEN Jian, KUO Yonghong	
Relay selection and power allocation for the uplink in cooperative cellular networks	(27)
..... GUO Chaoping, HAN Kun, ZHANG Xiaolong, LI Yongzhao, ZHANG Hailin	
Scheme for cross-layer seamless handover between HeNB and WLAN in the roaming scenario	(34)
..... LAI Chengzhe, LI Hui, ZHANG Yueyu, CAO Jin	
Change detection in multi-temporal remote sensing images based on the wavelet-domain hidden Markov chain model	(43)
..... XIN Fangfang, JIAO Licheng, WANG Guiting, WAN Honglin	
Greedy adaptive recovery algorithm for compressed sensing	(50)
..... GAN Wei, XU Luping, ZHANG Hua, SU Zhe	
Low power Turbo decoder based on the state metric decimation and interpolation strategy	(58)
..... LI Xiaofeng, FENG Dazheng, HU Shukai	
Translational motion compensation for ISAR imaging based on joint autofocusing under the low SNR	(63)
..... YANG Lei, XIONG Tao, ZHANG Lei, XING Mengdao	
New method of deriving the spectrum for general bistatic SAR processing	(72)
..... LIU Yuchun, WANG Jun, LI Hongwei	
High-performance CMOS current-mode Winner-take-all circuit	(80)
..... DAI Li, ZHUANG Yiqi, JING Xin, TANG Hualian	
Scattering rates of electrons in strained Si <sub>1-x</sub> Ge <sub>x</sub> (100)	(86)
..... ZHAO Lixia, ZHANG Heming, XUAN Rongxi, HU Huiyong	
Cooperative GBN-ARQ with a single buffer	(90)
..... DONG Luobing, SHEN Peiyi, YI Kechu, YU Quan	
Structure of the edge background clutter metric	(95)
..... LI Qian, ZHANG Jianqi, YANG Cui	
Efficient implementation of the CAVLC entropy encoder based on FPGA	(100)
..... CHU Xiuqin, WU Shuo, CHANG Fang, HE Wenqing	

- Calculation and application of the mutual impedance and the scattering matrices of large finite arrays  
 ..... ZHANG Shuai, GONG Shuxi, GUAN Ying, GONG Qi, LU Bao (106)
- Synthesis of a conformal antenna array using the competition differential evolution strategy  
 ..... LI Rui, SHI Xiaowei, XU Le, GU Xintao, LI Ping (114)
- Application of the high impedance surface for RCS reduction of the antenna  
 ..... GONG Qi, ZHANG Shuai, GONG Shuxi, JIAO Yongchang, LU Bao (120)
- Automatic matching algorithm for the latent semantic analysis based supply and demand information  
 ..... FENG Yuejin, ZHANG Fengbin (126)
- Optimized generalized complex exponential basis expansion in the OFDM system  
 ..... ZHANG Qinjuan, WU Muqing, GUO Qilin, ZHANG Rui (131)
- Adaptive neighbor selection method for the P2P media streaming system  
 ..... FENG Zhentan, NI Hong, WANG Jinlin, YOU Jiali (136)
- Method for constructing QC-LDPC codes using the dayan sequence  
 ..... ZHU Leiji, WANG Han, SHI Yusong, XING Tao, WANG Yingguan (144)
- IP protocol identification method using the pattern match and check sum  
 ..... YANG Jie, LIU Congfeng (149)
- Novel face recognition relevance feedback algorithm for video  
 ..... LU Ke, DING Zhengming, ZHAO Jidong, WU Yue (154)
- Miniaturized broadband and high gain metamaterial patch antenna  
 ..... LIU Tao, CAO Xiangyu, GAO Jun, YANG Qun, LI Wenqiang (161)
- Modeling of the throughput of CMT in heterogeneous networks  
 ..... ZHENG Yanwei, NI Hong, LIU Lei (166)
- Coordinated multi-point transmission with limited feedback and channel delay  
 ..... SHI Junfeng, ZHANG Tiankui, ZENG Zhimin (172)
- Disjoint nodes multipath routing algorithm for WSN  
 ..... YANG Jungang, SHI Haoshan, DUAN Aiyuan, MA Chao, WANG Qingwen (178)
- Compensation of the clutter spectrum for airborne forward-looking radar based on the Bessel series  
 expansion ..... JIANG Hui, LU Guangyue (185)
- Design of the switch-mode two-compensatory semiconductor laser temperature control power supply  
 ..... LIU Tanping, WANG Zhaoba, LIU Weiqi (190)
- Topological graph based tag semantic relatedness measure for social tagging systems  
 ..... ZHANG Changli, HOU Ronghui (196)
- Dynamic bandwidth allocation algorithm according to controlling call-blocking probabilities proportion  
 ..... ZHAO Haijun, LI Min, CUI Mengtian, LI Mingdong (202)
- Fabrication of the uniaxial stained SOI wafer by mechanical bending  
 ..... DAI Xianying, WANG Lin, YANG Cheng, ZHENG Ruochuan, ZHANG Heming (209)