

电子与信息学报

DIANZI YU XINXI XUEBAO

第33卷 第6期

2011年6月

目 次

论 文

- 新的基于 Shim 签名的可验证加密签名方案 谷利泽, 孙艳宾, 卿斯汉, 郑世慧, 杨义先 (1271)
标准模型下 KDM 安全的对称加密方案 来齐齐, 陈 原, 裴庆祺, 谢 敏, 张安源 (1277)
一种延迟容忍移动传感器网络自适应连接探测机制 杨奎武, 郑康锋, 钮心忻, 杨义先, 郭世泽 (1282)
一种自适应侦听的异步无线传感器网络 MAC 协议 陈德富, 陶正苏, 朱建平 (1290)
情感驱动的自私 MANETs 节点协商机制 杨 杨, 邱雪松, 孟洛明, 高志鹏 (1294)
均衡虚拟网构建算法研究 齐 宁, 王保进, 汪斌强, 张 栋 (1301)
基于核 Batch SOM 聚类优化的语义 Web 服务发现机制研究 陈 蕾, 杨 庚, 张迎周, 陈燕俐 (1307)
一种新的基于概率统计论的 P2P 网络信任模型 徐海涓, 齐守青, 卢显良, 韩 宏 (1314)
一种改进的反馈制两级交换结构 FTSA-2-SS 申志军, 曾华燊, 高志江 (1319)
基于空间唤醒的水声传感器网络节能路由协议 钟永信, 黄建国, 韩 晶 (1326)
兼容多标准的高效运动补偿新结构 喻庆东, 周 莉, 陈 杰 (1332)
H.264 结构相似性最优的宏块层码率控制算法 崔子冠, 朱秀昌 (1339)
一种新的用于 Hammerstein 预失真器的自适应结构 佴秀杰, 金明录 (1345)
多基站协作的闭环宏分集发射方案的最优设计 邹应全, 李春国, 杨绿溪 (1350)
MIMO 认知无线电分布式波形自适应算法 魏 飞, 杨 震 (1356)
IR-UWB 能量检测接收机中基于门限的 TOA 估计 姜向远, 张焕水, 王 伟, 王邢波 (1361)
一种新型的基于最大特征值的合作频谱感知算法 曹开田, 杨 震 (1367)
一种基于自适应网络卷积编码的协作中继方法 淦 明, 李 辉 (1373)
基于四阶累积量的近远场源多参数联合估计算法 徐元欣, 王安国, 聂仲尔 (1379)
水下小孔径阵列自适应匹配滤波检测方法 王 静, 黄建国 (1385)
一种低信噪比下的信号源数检测新方法 侯云山, 黄建国, 史文涛 (1390)
DTFT 频谱细化特性分析及其快速算法设计 肖 瑩, 涂亚庆, 何 丽 (1395)
一种鲁棒的非均匀灰度图像分割算法 田 淳, 周明全, 段福庆, 武仲科 (1401)
非局部联合稀疏近似的超分辨率重建算法 李 民, 李世华, 李小文, 乐 翔 (1407)
图像和视频中基于部件检测器的人体姿态估计 苏延超, 艾海舟, 劳世竑 (1413)
基于方位非线性变标的弹载 SAR 下降段成像算法 周 松, 包 敏, 周 鹏, 邢孟道, 保 锋 (1420)
前视成像雷达图像序列配准算法研究 施云飞, 宋 千, 金 添, 周智敏 (1427)
基于距离向 Scaling 原理的聚束 SAR 极坐标格式成像算法 李 超, 刘 畅, 高 鑫 (1434)
基于小波稀疏表示的压缩感知 SAR 成像算法研究 王伟伟, 廖桂生, 吴孙勇, 朱圣祺 (1440)
严格解析谱下同航线双基 SAR 频率变标成像算法 陈士超, 武其松, 刘 明, 邢孟道, 保 锋 (1447)
弹载斜视 SAR 成像的改进波数域算法 肖忠源, 徐华平, 李春升 (1453)
机载雷达高速空中微弱动目标检测新方法 吴仁彪, 贾琼琼, 李 海 (1459)
一种改进的星载 SAR 俯仰向 DBF 处理技术 冯 帆, 李世强, 禹卫东 (1465)

一种用于浅层探冰雷达的改进型宽带小型化 TSA 天线	张 锋, 刘小军, 纪奕才, 方广有, 巨汉基	(1471)
基于反向标定合成数据的改进集成算法	韩 敏, 朱新荣	(1475)
长互连链延时功耗建模与基于混合粒子群算法的优化	秋小强, 杨海钢, 周发标, 谢元禄	(1481)
研究简报		
认知无线电网络中基于噪声功率估计的能量检测性能	刘义贤, 季 飞, 余 华	(1487)
基于免疫计算的 WCDMA 网络基站选址优化	朱思峰, 刘 芳, 柴争义	(1492)
基于子带相似性分析的 JPEG2000 图像无参考质量评价	郭迎春, 于 明, Zhu Qiu-ming	(1496)
镜像不变的折反射全向图像与透视图像匹配	谭树人, 张茂军, 陈 旺, 王 斌	(1501)
符合 HVS 特性的相关系数 SAR 干扰效果评估方法	刘 阳, 代大海, 王雪松	(1505)
高分辨率宽测绘带星载 SAR 距离向 DBF 处理	李 扬, 黄杰文, 禹卫东	(1510)
基于回波幅度特征的拖曳式诱饵存在性检测	宋志勇, 肖怀铁	(1515)
ELVQ 算法实现宽参数偏移的多故障电路诊断	徐崇斌, 赵志文, 郑慧芳	(1520)

JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY

Vol.33 No.6 Jun. 2011

CONTENTS

Papers

New Verifiably Encrypted Signature Scheme Based on Shim's Signature	Gu Li-ze, Sun Yan-bin, Qing Si-han, Zheng Shi-hui, Yang Yi-xian (1271)
A KDM-secure Symmetric Encryption Scheme in the Standard Model	Lai Qi-qi, Chen Yuan, Pei Qing-qi, Xie Min, Zhang An-yuan (1277)
An Adaptive Contact Probing Scheme of Delay-tolerant Mobility Sensor Network	Yang Kui-wu, Zheng Kang-feng, Niu Xin-xin, Yang Yi-xian, Guo Shi-ze (1282)
An Adaptive Polling Periods MAC Protocol for Wireless Sensor Networks	Chen De-fu, Tao Zheng-su, Zhu Jian-ping (1290)
An Emotion-driven Negotiation Mechanism of Selfish Nodes in the MANETs	Yang Yang, Qiu Xue-song, Meng Luo-ming, Gao Zhi-peng (1294)
Research on Balanced Construction Algorithm of Virtual Network	Qi Ning, Wang Bao-jin, Wang Bin-qiang, Zhang Dong (1301)
Research on Semantic Web Services Discovery Mechanism Based on Kernel Batch SOM Neural Network	Chen Lei, Yang Geng, Zhang Ying-zhou, Chen Yan-li (1307)
A Novel Trust Model of P2P Networks Based on Theory of Probability and Statistics	Xu Hai-me, Qi Shou-qing, Lu Xian-liang, Han Hong (1314)
An Improved Feedback-based Two-stage Switch Architecture Using 2-staggered Symmetry Connection Pattern	Shen Zhi-jun, Zeng Hua-shen, Gao Zhi-jiang (1319)
Energy-efficient Routing Protocol Based on Spatial Wakeup for Underwater Acoustic Sensor Networks	Zhong Yong-xin, Huang Jian-guo, Han Jing (1326)
Hardware-efficient Motion Compensation Architecture for Multi-standard Video Decoder	Yu Qing-dong, Zhou Li, Chen Jie (1332)
Structural Similarity Optimal MB Layer Rate Control Algorithm for H.264	Cui Zi-guan, Zhu Xiu-chang (1339)
A Novel Adaptive Structure for Hammerstein Predistorter	Si Xiu-jie, Jin Ming-lu (1345)
Optimum Design of Closed-loop Macro Diversity Scheme for Cooperative Base Stations	Zou Ying-quan, Li Chun-guo, Yang Lu-xi (1350)
Decentralized Waveform Adaptation Algorithm for MIMO Cognitive Radio	Wei Fei, Yang Zhen (1356)
Threshold-based TOA Estimation in IR-UWB Energy Detection Receiver	Jiang Xiang-yuan, Zhang Huan-shui, Wang Wei, Wang Xing-bo (1361)
A Novel Cooperative Spectrum Sensing Algorithm Based on the Maximum Eigenvalue ...	Cao Kai-tian, Yang Zhen (1367)
An Adaptive Network Convolutional Coding for Cooperative Relaying	Gan Ming, Li Hui (1373)
Joint Multi-parameters Estimation of Near-field and Far-field Sources Based on the Fourth Order Cumulant	Xu Yuan-xin, Wang An-guo, Nie Zhong-er (1379)
Adaptive Matched Filter Detection Method on Underwater Small Aperture Array ...	Wang Jing, Huang Jian-guo (1385)
A Novel Method for the Detection of the Number of Signals at Low Signal-to-noise Ratios	Hou Yun-shan, Huang Jian-guo, Shi Wen-tao (1390)
Analysis of DTFT's Spectrum Zoom Character and Design of Its Fast Algorithm	Xiao Wei, Tu Ya-qing, He Li (1395)
A Robust Segmentation Algorithm for Images with Intensity Inhomogeneity	Tian Yun, Zhou Ming-quan, Duan Fu-qing, Wu Zhong-ke (1401)

(To be continued on inside back cover)

(Continued)

- Super-resolution Reconstruction Algorithm Based on Non-local Simultaneous Sparse Approximation
..... *Li Min, Li Shi-hua, Li Xiao-wen, Le Xiang* (1407)
- Part Detector Based Human Pose Estimation in Images and Videos *Su Yan-chao, Ai Hai-zhou, Lao Shi-hong* (1413)
- An Imaging Algorithm for Missile-borne SAR with Downward Movement Based on Azimuth Nonlinear Chirp
Scaling *Zhou Song, Bao Min, Zhou Peng, Xing Meng-dao, Bao Zheng* (1420)
- Research on Image Sequence Registration in Forward-looking Imaging Radar
..... *Shi Yun-fei, Song Qian, Jin Tian, Zhou Zhi-min* (1427)
- Polar Format Imaging Algorithm Based on Range Scaling for Spotlight SAR *Li Chao, Liu Chang, Gao Xin* (1434)
- A Compressive Sensing Imaging Approach Based on Wavelet Sparse Representation
..... *Wang Wei-wei, Liao Gui-sheng, Wu Sun-yong, Zhu Sheng-qi* (1440)
- Bistatic SAR Data Focusing Using a Frequency Scaling Algorithm Based on an Analytical Spectrum in Tandem
Configuration *Chen Shi-chao, Wu Qi-song, Liu Ming, Xing Meng-dao, Bao Zheng* (1447)
- A Modified Wave-number Domain Algorithm for Missile-borne Squinted SAR Data Processing
..... *Xiao Zhong-yuan, Xu Hua-ping, Li Chun-sheng* (1453)
- Detection of Fast Moving Dim Targets on Airborne Radar via STAP *Wu Ren-biao, Jia Qiong-qiong, Li Hai* (1459)
- An Improved Scheme of Digital Beam-forming on Elevation for Spaceborne SAR
..... *Feng Fan, Li Shi-qiang, Yu Wei-dong* (1465)
- A Novel Wideband Compact Tapered Slot Antenna for Shallow Icecap Detection Radar Applications
..... *Zhang Feng, Liu Xiao-jun, Ji Yi-cai, Fang Guang-you, Ju Han-ji* (1471)
- A New Ensemble Algorithm Based on Oppositional Relabeling of Artificial Data *Han Min, Zhu Xin-rong* (1475)
- Analysis of Delay-power Model of Long Chain and Optimization Based on Hybrid Evolution Particle Swarm
Algorithm *Qiu Xiao-qiang, Yang Hai-gang, Zhou Fa-biao, Xie Yuan-lu* (1481)
- Research Notes**
- Performance of Energy Detection Based on Estimated Noise Power in Cognitive Radio Networks
..... *Liu Yi-xian, Ji Fei, Yu Hua* (1487)
- A Novel Immune Algorithm for WCDMA Base Station Locations Optimization
..... *Zhu Si-feng, Liu Fang, Chai Zheng-yi* (1492)
- No Reference Image Quality Assessment Based on Subbands Similarity and Statistical Analysis for JPEG2000 ...
..... *Guo Ying-chun, Yu Ming, Zhu Qiu-ming* (1496)
- Mirror Invariant Matching between Catadioptric Omnidirectional and Perspective Images
..... *Tan Shu-ren, Zhang Mao-jun, Chen Wang, Wang Bin* (1501)
- An Evaluation Index Consistent with HVS Using Correlation Coefficient for SAR Jamming Effect Assessment ...
..... *Liu Yang, Dai Da-hai, Wang Xue-song* (1505)
- Range DBF Processing for High-resolution Wide-swath Spaceborne SAR ... *Li Yang, Huang Jie-wen, Yu Wei-dong* (1510)
- Detection of Presence of Towed Radar Active Decoy Based on Amplitude Characteristic
..... *Song Zhi-yong, Xiao Huai-tie* (1515)
- Multi-fault Diagnosis for Wide-deviation Analog Circuits Based on ELVQ Algorithm
..... *Xu Chong-bin, Zhao Zhi-wen, Zheng Hui-fang* (1520)