

电子与信息学报

DIANZI YU XINXI XUEBAO

第 41 卷 第 5 期

2019 年 5 月

目 次

论 文

- 一种新型卫星导航信号波形畸变特性评估新方法..... 贺成艳, 卢晓春, 郭 际 (1017)
- 基于改进小波变换的 MEMS 陀螺信号去噪算法..... 陈光武, 刘孝博, 王 迪, 刘射德 (1025)
- 一种基于空频结构与空时结构权值转换的精确宽带波束赋形算法.....
..... 王 旭, 谢菊兰, 何子述, 李会勇 (1032)
- 有源欺骗干扰环境下的 DOA 估计..... 王珊珊, 刘 峥, 谢 荣, 冉 磊 (1040)
- 分数阶傅里叶和压缩感知自适应抗频谱弥散干扰.....
..... 赵 杨, 尚朝轩, 韩壮志, 韩 宁, 解 辉 (1047)
- 基于回波序列最小二乘拟合的高分辨率 SAR 运动目标速度估计.....
..... 王 超, 王岩飞, 王 琦, 詹学丽 (1055)
- 一种基于参数更新的机载 SAR 图像目标定位方法..... 吴 元 (1063)
- 一种超宽带 10 GHz 微波光子雷达包络与相位联合运动误差估计方法
..... 陈潇翔, 邢孟道, 孙光才, 景国彬 (1069)
- 基于 Relax 算法的星载高分宽幅成像方法研究..... 王旭东, 张 迪, 闫 贺 (1077)
- 基于多尺度信息熵的雷达辐射源信号识别..... 黄颖坤, 金炜东, 葛 鹏, 李 冰 (1084)
- DC-6 GHz 宽带同轴电磁辐照实验装置的设计研究..... 王诗棋, 房少军, 陈 鹏 (1092)
- 基于深度卷积神经网络和多核学习的遥感图像分类方法..... 王 鑫, 李 可, 宁 晨, 黄凤辰 (1098)
- 区域信息驱动的多目标进化半监督模糊聚类图像分割算法..... 赵 凤, 张咪咪, 刘汉强 (1106)
- 簇间可分的鲁棒模糊 C 均值聚类算法..... 高云龙, 杨程宇, 王志豪, 罗斯哲, 潘金艳 (1114)
- 基于非局部梯度的图像质量评价算法..... 高敏娟, 党宏社, 魏立力, 张选德 (1122)
- 基于深度置信网络的随机脉冲噪声快速检测算法.....
..... 徐少平, 张贵珍, 李崇禧, 刘婷云, 唐祎玲 (1130)
- 基于贝叶斯融合的时空流异常行为检测模型..... 陈 莹, 何丹丹 (1137)
- 基于改进冲突度量的多证据直接融合算法..... 周 莉, 张歆茗, 郭伟震, 王 琰 (1145)
- 考虑任务不确定性的片上网络鲁棒性应用映射问题研究.....
..... 王新玉, 李治莹, 邵 帅, 虞志刚 (1152)
- 抑制脉冲型噪声的限幅器自适应设计..... 罗忠涛, 卢 鹏, 张杨勇, 张 刚 (1160)
- 基于差族构造高斯整数周期互补序列..... 刘 涛, 许成谦, 李玉博 (1167)
- 轻量级分组密码算法 ESF 的相关密钥不可能差分分析..... 谢 敏, 曾琦雅 (1173)
- 基于异构密码系统的混合群组签密方案..... 牛淑芬, 杨喜艳, 王彩芬, 田 苗, 杜小妮 (1180)
- 基于在线拍卖的网络切片资源分配算法..... 梁 靓, 武彦飞, 冯 钢 (1187)
- 超密集网络中基于移动边缘计算的任务卸载和资源优化..... 张海波, 李 虎, 陈善学, 贺晓帆 (1194)
- 面向业务的弹性光网络光路损伤感知能效路由策略.....
..... 刘焕淋, 方 菲, 黄 俊, 陈 勇, 向 敏, 马 跃 (1202)

异构无线网络中基于人工神经网络的自适应垂直切换算法.....	马 彬, 李尚儒, 谢显中	(1210)
无线多跳网络快速跨层资源优化分配算法.....	冯 维, 徐永鑫, 刘 浩, 许晓荣, 姚英彪	(1217)
一种基于节点间资源承载度的链路预测方法.....	王 凯, 刘树新, 陈鸿昶, 李 星	(1225)
基于网络结构特征的 IP 所属区域识别.....	费高雷, 张亚萌, 胡志宇, 周 磊, 胡光岷	(1235)
基于监督学习的可信云计算资源拍卖机制研究.....	张骥先, 谢 宁, 张学杰, 李伟东	(1243)
FPGA 硬核处理器系统加速数字电路功能验证的方法.....	刘小强, 袁国顺, 乔树山	(1251)
一种面向粗粒度可重构阵列的硬件木马检测算法的设计与实现.....	严迎建, 刘 敏, 邱钊洋	(1257)
学术讨论		
面向车载自组网的无证书聚合签名方案的安全性分析与改进.....		
.....	杨小东, 麻婷春, 陈春霖, 王晋利, 王彩芬	(1265)

JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY

Vol.41 No.5 May 2019

CONTENTS

Papers

- Evil Waveform Evaluating Method for New GNSS Signals. *HE Chengyan, LU Xiaochun, GUO Ji* (1017)
- Denoising of MEMS Gyroscope Based on Improved Wavelet Transform.
..... *CHEN Guangwu, LIU Xiaobo, WANG Di, LIU Shede* (1025)
- An Accurate Wideband Beampattern Synthesis Method Based on the Space-frequency Structure and the Space-time
Structure Conversion. *WANG Xu, XIE Julan, HE Zishu, LI Huiyong* (1032)
- DOA Estimation Under Active Deception Jamming Environment.
..... *WANG Shanshan, LIU Zheng, XIE Rong, RAN Lei* (1040)
- Fractional Fourier Transform and Compressed Sensing Adaptive Countering Smeared Spectrum Jamming.
..... *ZHAO Yang, SHANG Chaoxuan, HAN Zhuangzhi, HAN Ning, XIE Hui* (1047)
- Velocity Estimation of Moving Targets Based on Least Square Fitting of High-resolution SAR Echo Sequences.
..... *WANG Chao, WANG Yanfei, WANG Qi, ZHAN Xueli* (1055)
- An Airborne SAR Image Target Location Algorithm Based on Parameter Refining. *WU Yuan* (1063)
- A Motion Error Estimation Method Joint Envelope and Phase for 10 GHz Ultra-wideband Microwave Photonic-based
SAR Image. *CEHN Xiaoxiang, XING Mengdao, SUN Guangcai, JING Guobin* (1069)
- Research on Spaceborne High Resolution Wide Swath Imaging Method Based on Relax Algorithm.
..... *WANG Xudong, ZHANG Di, YAN He* (1077)
- Radar Emitter Signal Identification Based on Multi-scale Information Entropy.
..... *HUANG Yingkun, JIN Weidong, GE Peng, LI Bing* (1084)
- Design and Research of DC-6 GHz Broadband Electromagnetic Radiation Experimental Device.
..... *WANG Shiqi, FANG Shaojun, CHEN Peng* (1092)
- Remote Sensing Image Classification Method Based on Deep Convolution Neural Network and Multi-kernel Learning
..... *WANG Xin, LI Ke, NING Chen, HUANG Fengchen* (1098)
- Multi-objective Evolutionary Semi-supervised Fuzzy Clustering Image Segmentation Motivated by Region
Information. *ZHAO Feng, ZHANG Mimi, LIU Hanqiang* (1106)
- Robust Fuzzy C-means Clustering Algorithm Integrating Between-cluster Information.
..... *GAO Yunlong, YANG Chengyu, WANG Zhihao, LUO Sizhe, PAN Jinyan* (1114)
- Image Quality Assessment Algorithm Based on Non-local Gradient.
..... *GAO Minjuan, DANG Hongshe, WEI Lili, ZHANG Xuande* (1122)
- A Fast Random-valued Impulse Noise Detection Algorithm Based on Deep Belief Network.
..... *XU Shaoping, ZHANG Guizhen, LI Chongxi, LIU Tingyun, TANG Yiling* (1130)
- Spatial-temporal Stream Anomaly Detection Based on Bayesian Fusion. *CHEN Ying, HE Dandan* (1137)
- A Direct Fusion Algorithm for Multiple Pieces of Evidence Based on Improved Conflict Measure.
..... *ZHOU Li, ZHANG Xinming, GUO Weizhen, WANG Yan* (1145)
- Robust Application Mapping for Networks-on-chip Considering Uncertainty of Tasks.
..... *WANG Xinyu, LI Zhiying, SHAO Shuai, YU Zhigang* (1152)
- Adaptive Design of Limiters for Impulsive Noise Suppression.
..... *LUO Zhongtao, LU Peng, ZHANG Yangyong, ZHANG Gang* (1160)
- Constructions of Gaussian Integer Periodic Complementary Sequences Based on Difference Families.
..... *LIU Tao, XU Chengqian, LI Yubo* (1167)
- (To be continued on inside back cover)

(Continued)

Related-key Impossible Differential Cryptanalysis on Lightweight Block Cipher ESF.....	
.....	<i>XIE Min, ZENG Qiya</i> (1173)
Hybrid Group Signcryption Scheme Based on Heterogeneous Cryptosystem.....	
.....	<i>NIU Shufen, YANG Xiyan, WANG Caifen, TIAN Miao, DU Xiaoni</i> (1180)
Resource Allocation Algorithm of Network Slicing Based on Online Auction.....	
.....	<i>LIANG Liang, WU Yanfei, FENG Gang</i> (1187)
Computing Offloading and Resource Optimization in Ultra-dense Networks with Mobile Edge Computation.....	
.....	<i>ZHANG Haibo, LI Hu, CHEN Shanxue, HE Xiaofan</i> (1194)
Energy Efficiency Routing Strategy with Lightpath Impairment Awareness in Service-Oriented Elastic Optical Networks.....	<i>LIU Huanlin, FANG Fei, HUANG Jun, CHEN Yong, XIANG Min, MA Yue</i> (1202)
An Adaptive Vertical Handover Algorithm Based on Artificial Neural Network in Heterogeneous Wireless Networks	<i>MA Bin, LI Shangru, XIE Xianzhong</i> (1210)
A Fast Convergent Cross-layer Resource Optimization Allocation Algorithm in Wireless Multi-hop Networks.....	
.....	<i>FENG Wei, XU Yongxin, LIU Hao, XU Xiaorong, YAO Yingbiao</i> (1217)
A New Link Prediction Method for Complex Networks Based on Resources Carrying Capacity Between Nodes.....	
.....	<i>WANG Kai, LIU Shuxin, CHEN Hongchang, LI Xing</i> (1225)
Geographical Location Recognition of IP Based on Network Structure Features.....	
.....	<i>FEI Gaolei, ZHANG Yameng, HU Zhiyu, ZHOU Lei, HU Guangmin</i> (1235)
Supervised Learning Based Truthful Auction Mechanism Design in Cloud Computing.....	
.....	<i>ZHANG Jixian, XIE Ning, ZHANG Xuejie, LI Weidong</i> (1243)
Accelerating Functional Verification for Digital Circuit with FPGA Hard Processor System.....	
.....	<i>LIU Xiaoqiang, YUAN Guoshun, QIAO Shushan</i> (1251)
Design and Implementation of Hardware Trojan Detection Algorithm for Coarse-grained Reconfigurable Arrays.....	
.....	<i>YAN Yingjian, LIU Min, QIU Zhaoyang</i> (1257)
Discussions	
Security Analysis and Improvement of Certificateless Aggregate Signature Scheme for Vehicular Ad Hoc Networks	<i>YANG Xiaodong, MA Tingchun, CHEN Chunlin, WANG Jinli, WANG Caifen</i> (1265)