

第34卷 第4期
Vol.34 No.4

ISSN 1009-5896
CODEN DKXUEC
CN 11-4494/TN

电子与信息学报

JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY

2012

4

中国科学院电子学研究所 主办
国家自然科学基金委员会信息科学部
科学出版社 出版



电子与信息学报

DIANZI YU XINXI XUEBAO

第34卷 第4期 2012年4月

目 次

论 文

- 基于 6LoWPAN 的物联网寻址策略研究 王义君, 钱志鸿, 王 雪, 孙大洋 (763)
认知无线电网络的物理层安全研究及其鲁棒性设计 陈 涛, 余 华, 韦 岗 (770)
一种基于控制平面测量的光突发交换网络动态偏置时间算法
..... 牛大伟, 彭来献, 于卫波, 米志超, 赵文栋, 王 海 (776)
基于频谱感知结果的认知无线电用户分簇方法 孙剑锋, 高锦春, 刘元安, 谢 刚 (782)
多小区 OFDMA 解码转发中继通信系统的分布式资源分配算法 陈瑾平, 何世文, 杨绿溪 (787)
异步 MIMO-OFDM 中基于预处理矩阵的迭代检测算法 莫韬甫, 邵士海, 刘 田, 唐友喜 (795)
剩余类环 $Z/(p^n)$ 上若干类单圈多项式构造 游 伟, 戚文峰 (802)
针对流密码 HC-256' 的区分攻击 李顺波, 胡予濮, 王 艳 (807)
面向云计算基于双层激励和欺骗检测的信任模型 谢晓兰, 刘 亮, 赵 鹏 (812)
提供 QoS 保障的无线多跳路径可用带宽估计模型与方法 宋 安, 赵海涛, 王 杉, 魏急波 (818)
传感器网络中基于数据融合的栅栏覆盖控制研究 罗 卿, 林亚平, 王 雷, 尹 波 (825)
基于降维噪声子空间的二维阵列 DOA 估计算法 闫锋刚, 刘 帅, 金 铭, 乔晓林 (832)
基于混沌压缩感知的稀疏时变信号在线估计 陈胜垚, 席 峰, 刘 中 (838)
一种与 JPEG 图像压缩编码结合的细胞自动机域盲水印算法
..... 吴慧琳, 周激流, 龚小刚, 李炳法, 文 扬, 尹 皓 (844)
基于证据相似性度量的冲突性区间证据融合方法 冯海山, 徐晓滨, 文成林 (851)
基于窗口边缘梯度势能的人体遮挡多尺度检测算法 欧阳毅, 张三元, 张 引 (858)
一种具有自适应关联门的杂波中机动目标跟踪算法 程 婷, 何子述, 李亚星 (865)
海面漂浮小目标的特征联合检测算法 时艳玲, 水鹏朗 (871)
基于分数阶傅里叶变换的双基地雷达线性调频信号的参数联合估计新方法 李 丽, 邱天爽 (878)
一种基于二阶 Markov 目标状态模型的多帧关联动态规划检测前跟踪算法
..... 郑岱堃, 王首勇, 杨 军, 杜鹏飞 (885)
基于匹配度的闪烁 HRRP 谱特征分析 张 瑞, 魏玺章, 黎 湘 (891)
针对方向图综合的 MIMO 雷达双边自适应矩阵算法 王 勇, 刘宏伟, 纠 博, 杨晓超 (898)
基于联合矩阵对角化的双基地 MIMO 雷达 DOD-DOA 估计 程院兵, 顾 红, 苏卫民 (904)
相位中心偏差对机载阵列天线下视 3D-SAR 成像影响分析 朱海洋, 洪 峻, 明 峰 (910)
基于模数的干涉相位自适应中值滤波法 葛仕奇, 丁泽刚, 陈 亮, 龙 腾 (917)
基于改进 Hough 变换的海面微弱目标检测 左 磊, 李 明, 张晓伟, 罗小云 (923)
实测海杂波频域分形特性分析 刘宁波, 黄 勇, 关 键, 何 友 (929)
基于重构时间采样的空中机动目标检测与参数估计 吴仁彪, 王小寒, 李 海, 王冬梅 (936)
基于跨航向稀疏阵列的机载下视 MIMO 3D-SAR 三维成像算法
..... 彭学明, 王彦平, 谭维贤, 洪 文, 吴一戎 (943)
基于非局部均值滤波的 SAR 图像去噪 易子麟, 尹 东, 胡安洲, 张 荣 (950)

- 基于旋转干涉仪模糊相位差的多假设 NLS 定位算法 李 腾, 郭福成, 姜文利 (956)
一种虚假大场景 SAR 快速转发式欺骗干扰方法 赵 博, 杨 军, 孙光才, 周 峰, 保 锋 (963)
一种基于离散实镜像理论的修正物理光学法在金属平行板内嵌电大尺寸结构中的应用
..... 高 翔, 李 超, 谷胜明, 方广有 (969)
带有低噪声单端转差分电路的射频增益可控放大器
..... 何晓丰, 莫太山, 马成炎, 叶甜春, 甘业兵, 钱 敏 (976)
GaN 逆 F 类高效率功率放大器及线性化研究 徐樱杰, 王晶琦, 朱晓维 (981)
基于多数覆盖的二级 MPRM 函数逻辑优化 王伦耀, 夏银水, 陈偕雄 (986)
研究简报
基于韦伯感知和导引滤波分层聚合快速立体图像匹配 刘天亮, 戴修斌, 朱秀昌, 罗立民 (992)
采用 Radon-Wigner 变换的二维波达方向估计 许建忠, 孙红伟, 孙业岐, 段平光 (997)
一种应用于全球导航卫星系统接收机的低功耗宽带压控振荡器
..... 尹喜珍, 肖时茂, 马成炎, 叶甜春 (1002)
信道估计误差场景 MIMO ARQ 系统中的模式切换 张正宇, 邱 玲 (1007)
基于并行完备检测的高速异步流水线设计 杨延飞, 杨银堂, 朱樟明, 周 端 (1012)

JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY

Vol.34 No.4 Apr. 2012

CONTENTS

Papers

- Addressing Scheme for Internet of Things Based on IPv6 over Low-power Wireless Personal Area Network (6LoWPAN) *Wang Yi-jun, Qian Zhi-hong, Wang Xue, Sun Da-yang* (763)
- Study on the Physical Layer Security of Cognitive Radio Networks and Its Robustness Design *Chen Tao, Yu Hua, Wei Gang* (770)
- Control Plane Measurement Based Dynamic Offset Time Algorithm in Optical Burst Switching Networks *Niu Da-wei, Peng Lai-xian, Yu Wei-bo, Mi Zhi-chao, Zhao Wen-dong, Wang Hai* (776)
- Clustering Method for Cognitive Radio User Based on the Results of Spectrum Sensing *Sun Jian-feng, Gao Jin-chun, Liu Yuan-an, Xie Gang* (782)
- Distributed Resource Allocation for Multi-cell OFDMA Decode-and-forward Relaying Networks *Chen Jin-ping, He Shi-wen, Yang Lu-xi* (787)
- Pre-processing Matrix Based Iterative Detection Algorithm in Asynchronous MIMO-OFDM *Mo Tao-fu, Shao Shi-hai, Liu Tian, Tang You-xi* (795)
- Construction of Several Classes of Single-cycle Polynomials over $Z/(p^n)$ *You Wei, Qi Wen-feng* (802)
- Distinguishing Attack on Stream Cipher HC-256' *Li Shun-bo, Hu Yu-pu, Wang Yan* (807)
- Trust Model Based on Double Incentive and Deception Detection for Cloud Computing *Xie Xiao-lan, Liu Liang, Zhao Peng* (812)
- Available Bandwidth Estimation in Wireless Multihop Path for QoS Provision: Model and Method *Song An, Zhao Hai-tao, Wang Shan, Wei Ji-bo* (818)
- Barrier Coverage Control Based on Data Fusion for Wireless Sensor Network *Luo Qing, Lin Ya-ping, Wang Lei, Yin Bo* (825)
- 2-D DOA Estimation Method Based on Dimension Descended Noise Subspace *Yan Feng-gang, Liu Shuai, Jin Ming, Qiao xiao-lin* (832)
- Online Estimation of Sparse Time-varying Signals with Chaotic Compressive Sensing *Chen Sheng-yao, Xi Feng, Liu Zhong* (838)
- A Novel Blind Watermarking Algorithm Joint JPEG Image Encoding and Cellular Automata *Wu Hui-lin, Zhou Ji-liu, Gong Xiao-gang, Li Bing-fa, Wen Yang, Yin Hao* (844)
- A New Fusion Method of Conflicting Interval Evidence Based on the Similarity Measure of Evidence *Feng Hai-shan, Xu Xiao-bin, Wen Cheng-lin* (851)
- Multi-scale Human Detection Based on Window Gradient Potential Energy with Partial Occlusion Handling *Ouyang Yi, Zhang San-yuan, Zhang Yin* (858)
- A Maneuvering Target Tracking Algorithm with Adaptive Association Gate in Clutters *Cheng Ting, He Zi-shu, Li Ya-xing* (865)
- Feature United Detection Algorithm on Floating Small Target of Sea Surface *Shi Yan-ling, Shui Peng-lang* (871)
- A Novel Method for Joint Parameter Estimation of LFM Signals in Bistatic MIMO Radar System Based on FRFT *Li Li, Qiu Tian-shuang* (878)
- A Multi-frame Association Dynamic Programming Track-before-detect Algorithm Based on Second Order Markov Target State Model *Zheng Dai-kun, Wang Shou-yong, Yang Jun, Du Peng-fei* (885)
- Analyses of the Spectra Features of Speckled HRRP Based on the Matching Score *Zhang Rui, Wei Xi-zhang, Li Xiang* (891)

(To be continued on inside back cover)

(Continued)

Beampattern Synthesis via a Two-sided Adaptive Matrix Approach for MIMO Radar	Wang Yong, Liu Hong-wei, Jiu Bo, Yang Xiao-chao	(898)
DOD-DOA Estimation Using Joint Matrix Diagonalization in Bistatic MIMO Radar	Cheng Yuan-bing, Gu Hong, Su Wei-min	(904)
Analysis of Impact of Phase Center Variations in Linear Array Antenna Downward-looking 3D-SAR Imaging	Zhu Hai-yang, Hong Jun, Ming Feng	(910)
A Mode Based Auto-adaptive Median Filtering Method for Interferometric Phase	Ge Shi-qi, Ding Ze-gang, Chen Liang, Long Teng	(917)
Small-target Detection in Sea Clutter Based on Improved Hough Transform	Zuo Lei, Li Ming, Zhang Xiao-wei, Luo Xiao-yun	(923)
Fractal Analysis of Real Sea Clutter in Frequency Domain	Liu Ning-bo, Huang Yong, Guan Jian, He You	(929)
Detection and Parameter Estimation of Air Maneuvering Targets via Reconstructing Time Samples	Wu Ren-biao, Wang Xiao-han, Li Hai, Wang Dong-mei	(936)
Airborne Downward-looking MIMO 3D-SAR Imaging Algorithm Based on Cross-track Thinned Array	Peng Xue-ming, Wang Yan-ping, Tan Wei-xian, Hong Wen, Wu Yi-rong	(943)
SAR Image Despeckling Based on Non-local Means Filter	Yi Zi-lin, Yin Dong, Hu An-zhou, Zhang Rong	(950)
Multiple Hypothesis NLS Location Algorithm Based on Ambiguous Phase Difference Measured by a Rotating Interferometer	Li Teng, Guo Fu-cheng, Jiang Wen-li	(956)
A Method of SAR Fast Repeater Deception Jamming for Large False Scene	Zhao Bo, Yang Jun, Sun Guang-cai, Zhou Feng, Bao Zheng	(963)
A Modified Physical Optics Method Based on Discrete Real Mirror Image Theory for Structures with Electrically Large Dimension and Embedded between Two Parallel Metal Plates	Gao Xiang, Li Chao, Gu Sheng-ming, Fang Guang-you	(969)
RF Programmable Amplifier with Low Noise Single-ended Differential Circuit	He Xiao-feng, Mo Tai-shan, Ma Cheng-yan, Ye Tian-chun, Gan Ye-bing, Qian Min	(976)
Investigation on GaN Inverse Class-F Highly Efficient Power Amplifier and Linearization	Xu Ying-jie, Wang Jing-qi, Zhu Xiao-wei	(981)
Two-level MPRM Functions Optimization Based on Majority Cubes	Wang Lun-yao, Xia Yin-shui, Chen Xie-xiong	(986)
Research Notes		
Hierarchical Aggregation Fast Stereo Image Matching Based on Weber Perception and Guided Filtering	Liu Tian-liang, Dai Xiu-bin, Zhu Xiu-chang, Luo Li-min	(992)
2-D Direction of Arrival Estimation Method Using Radon-Wigner Transform	Xu Jian-zhong, Sun Hong-wei, Sun Ye-qí, Duan Ping-guang	(997)
A Low Power Wide-band Voltage Controlled Oscillator for Global Navigation Satellite System Receiver	Yin Xi-zhen, Xiao Shi-mao, Ma Cheng-yan, Ye Tian-chun	(1002)
Mode Switching for MIMO ARQ Systems with CEE	Zhang Zheng-yu, Qiu Ling	(1007)
Design of High-speed Asynchronous Pipeline Based on Parallel Completion Detection	Yang Yan-fei, Yang Yin-tang, Zhu Zhang-ming, Zhou Duan	(1012)