

# 电子与信息学报

DIANZI YU XINXI XUEBAO

第 41 卷 第 7 期

2019 年 7 月

## 目 次

### 论 文

- 基于带缓存的云接入网络最优能效设计 ..... 孙 远,李春国,黄永明,杨绿溪 (1525)
- 虚拟化云无线接入网络下基于在线学习的网络切片虚拟资源分配算法 .....  
..... 唐 伦,魏延南,马润琳,贺小雨,陈前斌 (1533)
- 同/异步短码 DS-CDMA 信号伪码序列及信息序列盲估计 ..... 周 杨,张天骐 (1540)
- 多层中继网络上的分布式 LT 码 ..... 张 艳,陈建华,唐 猛 (1548)
- 基于 Mann-Whitney 秩和检验的无线局域网室内映射与定位方法 .....  
..... 周 牧,王烟濛,袁 慧,田增山 (1555)
- 室内环境中基于天牛须寻优的普适定位方法 ..... 刘 影,钱志鸿,贾 迪 (1565)
- 基于分段循环冗余校验的极化码自适应连续取消列表译码算法 .....  
..... 王 琼,罗亚洁,李思舫 (1572)
- 高精度光纤时间频率一体化传递 .....  
..... 杨文哲,杨宏雷,王学运,张升康,赵 环,杨 军,冯克明 (1579)
- 核心链路感知的可生存虚拟网络链路保护方法 ..... 苏玉泽,孟相如,康巧燕,韩晓阳 (1587)
- 基于非相似余度架构的网络空间安全系统异构性量化方法.....  
..... 张杰鑫,庞建民,张 铮,邵 铭,刘 浩 (1594)
- 基于敏感度混淆机制的控制型物理不可克隆函数研究 .....  
..... 徐金甫,吴 缙,李军伟,曲彤洲,董永兴 (1601)
- LiCi 分组密码算法的不可能差分分析 ..... 韦永壮,史佳利,李灵琛 (1610)
- 一类 2 次多项式混沌系统的均匀化方法研究 ..... 臧鸿雁,黄慧芳,柴宏玉 (1618)
- 一种低延迟的 3 维高效视频编码中深度建模模式编码器 .....  
..... 王 莉,曹一凡,杜高明,刘冠宇,王晓蕾,张多利 (1625)
- 一种基于超节点理论的本体关系消冗算法 ..... 于洪涛,丁悦航,刘树新,黄瑞阳,谷允捷 (1633)
- 基于语音卷积稀疏迁移学习和并行优选的帕金森病分类算法研究 .....  
..... 张小恒,李勇明,王 品,曾孝平,颜 芳,张艳玲,承欧梅 (1641)
- 基于空间可靠性约束的鲁棒视觉跟踪算法 ..... 蒲 磊,冯新喜,侯志强,余旺盛 (1650)
- 基于粒子群优化的对抗样本生成算法 .....  
..... 钱亚冠,卢红波,纪守领,周武杰,吴淑慧,云本胜,陶祥兴,雷景生 (1658)
- 改进多元宇宙算法求解大规模实值优化问题 ..... 刘小龙 (1666)
- 基于整数线性规划重构抽象语义图结构的语义摘要算法 .....  
..... 陈鸿昶,明拓思宇,刘树新,高 超 (1674)
- 时空域联合的水下未知线谱目标检测方法 ..... 王逸林,马世龙,邹 男,梁国龙 (1682)
- 基于分布式压缩感知的宽带欠定信号 DOA 估计 ..... 蒋 莹,王冰切,韩 俊,何 翼 (1690)
- 基于粒子群算法的宽带真延时方向图栅瓣抑制方法 ..... 丛雯珊,余 岚,沃江海 (1698)

基于多级阻塞的稳健相干自适应波束形成 .....	唐 敏, 齐 栋, 刘成城, 赵拥军	(1705)
基于 LFM 分段脉冲压缩的抗间歇采样转发干扰方法 .....		
.....	张建中, 穆贺强, 文树梁, 李彦兵, 高红卫	(1712)
基于实值处理的联合波束域双基地 MIMO 雷达测角算法 .....	徐保庆, 赵永波, 庞晓娇	(1721)
载机偏航下基于广义相邻多波束自适应处理的低空风切变风速估计 .....		
.....	李 海, 李怡静, 吴仁彪	(1728)
结合字典学习技术的 ISAR 稀疏成像方法 .....	胡长雨, 汪 玲, 朱栋强	(1735)
一种改进的基于峰值信噪比-高阶奇异值分解的天波超视距雷达自适应海杂波抑制算法.....		
.....	关泽文, 陈建文, 鲍 拯	(1743)
基于 HRRP 序列的钝头倒角锥目标微动特性分析及参数估计 .....	苏 楠, 戴奉周, 刘宏伟	(1751)
基于方向图和多普勒相关系数的天基阵列 SAR 通道相位误差补偿方法 .....		
.....	潘 洁, 王 帅, 李道京, 卢晓春	(1758)
基于改进神经网络增强自适应 UKF 的组合导航系统 .....		
.....	陈光武, 程鉴皓, 杨菊花, 刘 昊, 张琳婧	(1766)
<b>简 报</b>		
基于判别邻域嵌入算法的说话人识别 .....	梁春燕, 袁文浩, 李艳玲, 夏 斌, 孙文珠	(1774)

# JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY

Vol.41 No.7 Jul. 2019

## CONTENTS

### Papers

- Optimal Energy-efficient Design for Cache-based Cloud Radio Access Network .....  
..... *SUN Yuan, LI Chunguo, HUANG Yongming, YANG Litxi* (1525)
- Online Learning-based Virtual Resource Allocation for Network Slicing in Virtualized Cloud Radio Access Network  
..... *TANG Lun, WEI Yannan, MA Runlin, HE Xiaoyu, CHEN Qianbin* (1533)
- Blind Estimation of the Pseudo Noise Sequence and Information Sequence for Short Code Synchronous and  
Asynchronous DS-CDMA Signal ..... *ZHOU Yang, ZHANG Tianqi* (1540)
- Distributed LT Codes on Multiple Layers Network ..... *ZHANG Yan, CHEN Jianhua, TANG Meng* (1548)
- Mann-Whitney Rank Sum Test Based Wireless Local Area Network Indoor Mapping and Localization Approach  
..... *ZHOU Mu, WANG Yanmeng, YUAN Hui, TIAN Zengshan* (1555)
- Universal Localization Algorithm Based on Beetle Antennae Search in Indoor Environment.....  
..... *LIU Ying, QIAN Zhihong, JIA Di* (1565)
- Polar Adaptive Successive Cancellation List Decoding Based on Segmentation Cyclic Redundancy Check.....  
..... *WANG Qiong, LUO Yajie, LI Sifang* (1572)
- High Precision Time and Frequency Integration Transfer via Optical Fiber .....  
..... *YANG Wenzhe, YANG Honglei, WANG Xueyun, ZHANG Shengkang, ZHAO Huan, YANG Jun, FENG Keming* (1579)
- Core Link Aware Survivable Virtual Network Link Protection Method .....  
..... *SU Yuze, MENG Xiangru, KANG Qiaoyan, HAN Xiaoyang* (1587)
- Heterogeneity Quantization Method of Cyberspace Security System Based on Dissimilar Redundancy Structure  
..... *ZHANG Jiexin, PANG Jianmin, ZHANG Zheng, TAI Ming, LIU Hao* (1594)
- Controlled Physical Unclonable Function Research Based on Sensitivity Confusion Mechanism .....  
..... *XU Jinfu, WU Jin, LI Junwei, QU Tongzhou, DONG Yongxing* (1601)
- Impossible Differential Cryptanalysis of LiCi Block Cipher..... *WEI Yongzhuang, SHI Jiali, LI Lingchen* (1610)
- Homogenization Method for the Quadratic Polynomial Chaotic System.....  
..... *ZANG Hongyan, HUANG Huifang, CHAI Hongyu* (1618)
- A Low-latency Depth Modelling Mode-1 Encoder in 3D-high Efficiency Video Coding Standard.....  
..... *WANG Li, CAO Yifan, DU Gaoming, LIU Guanyu, WANG Xiaolei, ZHANG Duoli* (1625)
- Eliminating Structural Redundancy Based on Super-node Theory.....  
..... *YU Hongtao, DING Yuehang, LIU Shuxin, HUANG Ruiyang, GU Yunjie* (1633)
- Classification Algorithm of Parkinson's Disease Based on Convolutional Sparse Transfer Learning and Sample/Feature  
Parallel Selection ..... *ZHANG Xiaoheng, LI Yongming, WANG Pin, ZENG Xiaoping,  
YAN Fang, ZHANG Yanling, CHENG Oumei* (1641)
- Robust Visual Tracking Based on Spatial Reliability Constraint .....  
..... *PU Lei, FENG Xinxi, HOU Zhiqiang, YU Wangsheng* (1650)
- Adversarial Example Generation Based on Particle Swarm Optimization .....  
..... *QIAN Yaguan, LU Hongbo, JI Shouling, ZHOU Wujie, WU Shuhui, YUN Bensheng, TAO Xiangxing, LEI Jingsheng* (1658)
- Application of Improved Multiverse Algorithm for Large Scale Optimization Problems..... *LIU Xiaolong* (1666)
- Semantic Summarization of Reconstructed Abstract Meaning Representation Graph Structure Based on Integer  
Linear Programming ..... *CHEN Hongchang, MING Tuosiyu, LIU Shuxin, GAO Chao* (1674)
- (To be continued on inside back cover)

(Continued)

Detection of Unknown Line-spectrum Underwater Target Using Space-time Processing .....	.....
.....	..... <i>WANG Yilin, MA Shilong, ZOU Nan, LIANG Guolong</i> (1682)
Underdetermined Wideband DOA Estimation Based on Distributed Compressive Sensing .....	.....
.....	..... <i>JIANG Ying, WANG Bingqie, HAN Jun, HE Yi</i> (1690)
A Grating Lobe Suppression Method of Wideband Real Time Delay Pattern Based on Particle Swarm Optimization Algorithm.....	..... <i>CONG Wenshan, YU Lan, WO Jianghai</i> (1698)
New Adaptive Beamformer for Coherent Interference Based on Multistage Blocking .....	.....
.....	..... <i>TANG Min, QI Dong, LIU Chengcheng, ZHAO Yongjun</i> (1705)
Anti Intermittent Sampling Repeater Jamming Method Based on LFM Segmented Pulse Compression .....	.....
.....	..... <i>ZHANG Jianzhong, MU Heqiang, WEN Shuliang, LI Yanbing, GAO Hongwei</i> (1712)
Joint Real-valued Beamspace-based Method for Angle Estimation in Bistatic MIMO Radar .....	.....
.....	..... <i>XU Baoqing, ZHAO Yongbo, PANG Xiaojiao</i> (1721)
Generalized Adjacent Multi-beam Adaptive Processing Based Low-altitude Wind-shear Wind Speed Estimation under Aircraft Yawing.....	..... <i>LI Hai, LI Yijing, WU Renbiao</i> (1728)
Sparse ISAR Imaging Exploiting Dictionary Learning .....	..... <i>HU Changyu, WANG Ling, ZHU Dongqiang</i> (1735)
A Modified Adaptive Sea Clutter Suppression Algorithm Based on PSNR-HOSVD for Skywave OTHR .....	.....
.....	..... <i>GUAN Zewen, CHEN Jianwen, BAO Zheng</i> (1743)
Micro-motion Characteristic Analysis and Parameters Estimation for Blunt-nosed Chamfered Cone Based on HRRP Sequence .....	..... <i>SU Nan, DAI Fengzhou, LIU Hongwei</i> (1751)
A Channel Phase Error Compensation Method for Space Borne Array SAR Based on Antenna Pattern and Doppler Correlation Coefficient .....	..... <i>PAN Jie, WANG Shuai, LI Daojing, LU Xiaochun</i> (1758)
Improved Neural Network Enhanced Navigation System of Adaptive Unsented Kalman Filter .....	.....
.....	..... <i>CHEN Guangwu, CHENG Jianhao, YANG Juhua, LIU Hao, ZHANG Linjing</i> (1766)
Speaker Recognition Using Discriminant Neighborhood Embedding .....	.....
.....	..... <i>LIANG Chunyan, YUAN Wenhao, LI Yanling, XIA Bin, SUN Wenzhu</i> (1774)