



Ei Compendex 收录期刊  
中文核心期刊

ISSN 1001-0548  
CN 51-1207/T  
CODEN DKDAEM

# 电子科技大学 学报

JOURNAL OF UNIVERSITY  
OF ELECTRONIC SCIENCE AND  
TECHNOLOGY OF CHINA

第48卷 第1期 Vol. 48 No.1



ISSN 1001-0548



**2019**

中国 成都

CHENGDU CHINA

## 目 次

### • 通信与信息工程 •

基于最大锐度半正定规划的线阵SAR自聚焦三维成像 .....	韦顺军, 张晓玲, 师 君, 蒲 玲 (1)
全通滤波器在全电子时域成像中的应用 .....	赵小翔, 肖绍球 (8)
瞬态电磁场三维时域有限差分模拟研究 .....	张双狮, 雷朝军, 刘迎辉, 牛新建, 魏彦玉 (13)
基于扇形枝节加载谐振器的超宽带滤波器 .....	刘家州, 马 宁, 邓希达, 延 波 (22)
使用SMP的超大点数FFT算法研究与实现 .....	钱炳锋, 孙以泽 (26)
基于小样本的高精度室内停车场指纹定位算法 .....	王维博, 孙敬欢, 董蕊莹, 郑永康 (32)
不完整数据集的MFR辐射源识别方法研究 .....	陈维高, 朱卫纲, 唐晓婧, 贾 鑫 (39)
一种检测视频中运动目标的新方法 .....	张延良, 卢 冰, 张伟涛, 李兴旺 (46)

### • 自动化技术 •

改进的共轭梯度MRI压缩成像算法 .....	袁太文, 谢永乐, 毕东杰, 盘 龙, 吕 珏 (53)
晶体振荡器输出的精密频率改正技术 .....	白丽娜, 刘海东, 葛肖霞, 翟鸿启, 周 渭 (58)

### • 计算机工程与应用 •

堆叠稀疏降噪自编码的脑电信号识别 .....	唐贤伦, 刘雨微, 万亚利, 马艺玮 (62)
基于空间稀疏编码的MIL算法及刑侦图像分类 .....	李大湘, 吴 倩, 邱 鑫, 刘 颖 (68)
节点增减机制下的病毒传播模型及稳定性 .....	王 刚, 胡 鑫, 陆世伟 (74)
适合大群组的格基动态群签名方案 .....	李雪莲, 吕晓琳, 郭利娟, 高军涛 (80)
基于BiRNN的维吾尔语情感韵律短语注意力模型 .....	帕丽旦·木合塔尔, 买买提阿依甫, 杨文忠, 吾守尔·斯拉木 (88)
基于会面合并事件的社会关系强度度量模型 .....	陈 增, 王科人, 杨 铮 (96)
提高相依网络鲁棒性的加边策略研究 .....	陈世明, 戴亚明, 程运洪 (103)
极限学习脊波过程神经网络及应用 .....	刘志刚, 许少华, 肖佃师, 杜 娟 (110)
基于PCA与协同表示的高光谱图像分类研究 .....	韩嫚莉, 侯卫民, 孙靖国, 王 明, 梅少辉 (117)

### • 复杂性科学 •

无权网络零模型的构造及应用 .....	许小可, 崔文阔, 崔丽艳, 肖 婧, 尚可可 (122)
H-指数及其衍生指标的本质探讨 .....	范天龙, 吕琳媛 (142)

### • 机械电子工程 •

多热源相控阵天线微通道冷板拓扑结构设计 .....	谭 慧, 陈加进, 吴龙文, 卢 婷, 杜平安 (150)
基于序列代理模型的结构可靠性分析方法 .....	肖宁聪, 袁 凯, 王永山 (156)

期刊基本参数: CN51-1207/T\*1959\*b\*16\*160\*zh\*P\*25.00\*1500\*23\*2019-01

# JOURNAL OF UNIVERSITY OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA

Vol.48 No.1 Jan. 2019

## CONTENTS

### • Communication and Information Engineering •

Linear Array SAR Autofocus 3-D Imaging via Maximum Sharpness Semidefinite Programming.....	
..... WEI Shun-jun, ZHANG Xiao-ling, SHI Jun, and PU ling	(1)
The Application of All-pass Filter in the Fully Electronic Temporal Imaging.....	ZHAO Xiao-xiang and XIAO Shao-qiu (8)
On Simulation of 3D-FDTD for Transient Electromagnetic Field .....	
..... ZHANG Shuang-shi, LEI Chao-jun, LIU Ying-hui, NIU Xin-jian, and WEI Yan-yu	(13)
Compact Ultra-Wideband Filter Using Novel Radial-Stub-Loaded Resonator (RSLR) .....	LIU Jia-zhou, MA Ning, DENG Xi-da, and YAN Bo (22)
Research and Implementation of VLFFT Algorithm Using SMP System .....	QIAN Bing-feng and SUN Yi-ze (26)
A High Accuracy Fingerprint Location Algorithm Based on Small Sample for Indoor Parking Lot .....	
..... WANG Wei-bo, SUN Jing-huan, DONG Rui-ying, and ZHENG Yong-kang	(32)
Research on MFR Emitter Identification Method for Incomplete Data .....	CHEN Wei-gao, ZHU Wei-gang, TANG Xiao-jing, and JIA Xin (39)
A New Method for Detecting Moving Objects in Video .....	ZHANG Yan-liang, LU Bing, ZHANG Wei-tao, and LI Xing-wang (46)

### • Automation Techniques •

An Improved Conjugate Gradient Algorithm for Compressed MRI Imaging.....	YUAN Tai-wen, XIE Yong-le, BI Dong-jie, PAN Long, and LÜ Jue (53)
Crystal Oscillator Output Frequency Precision Adjustment Technology.....	BAI Li-na, LIU Hai-dong, GE Xiao-xia, ZHAI Hong-qi, and ZHOU Wei (58)

### • Computer Engineering and Applications •

Recognition of EEG Based on Stacked Sparse Denoising Auto-Encoder.....	TANG Xian-lun, LIU Yu-wei, WANG Ya-li, and MA Yi-wei (62)
Spatial Sparse Coding Based MIL Algorithm for Criminal Investigation Image Classification .....	LI Da-xiang, WU Qian, QIU Xin, and LIU Ying (68)
Virus Spreading Model and Its Stability Based on the Mechanism of Node Increasing and Decreasing .....	WANG Gang, HU Xin, and LU Shi-wei (74)
A Dynamic Group Signature Scheme Based on Lattice for Large Groups .....	LI Xue-lian, LÜ Xiao-lin, GUO Li-juan, and GAO Jun-tao (80)
Uyghur Sentiment Rhythm Phrase Attention Model Based on BiRNN.....	
..... MUHETAER Palidan, Maimaitiayifu, YANG Wen-zhong, and SILAMU Wushouer	(88)
A Social Relationship Strength Measurement Model Based on Merged Meeting Events.....	CHEN Zeng, WANG Ke-ren, and YANG Zheng (96)
Research of the Link Addition Strategies for Improving the Robustness of Interdependent Networks.....	
..... CHEN Shi-ming, DAI Ya-ming, and CHENG Yun-hong	(103)
Extreme Learning Ridgelet Process Neural Network and Application .....	LIU Zhi-gang, XU Shao-hua, XIAO Dian-shi, and DU Juan (110)
Hyperspectral Image Classification Algorithm Based on PCA and Collaborative Representation .....	
..... HAN Man-li, HOU Wei-min, SUN Jing-guo, WANG Ming, and MEI Shao-hui	(117)

### • Complexity Sciences •

Construction and Applications of Null Models for Unweighted Networks .....	XU Xiao-ke, CUI Wen-kuo, CUI Li-yan, XIAO Jing, and SHANG Ke-ke (122)
The Study on the Essence of H-index and Its Derivative Indices .....	FAN Tian-long and LÜ Lin-yuan (142)

### • Mechatronic Engineering •

Topology Design of Microchannel Heat Sink for Phased Array Antenna Cooling with Multiple Sources .....	
..... TAN Hui, CHEN Jia-jin, WU Long-wen, LU Ting, and DU Ping-an	(150)
Structural Reliability Analysis Using Sequential Surrogate Models.....	XIAO Ning-Cong, YUAN Kai, and WANG Yong-shan (156)