



ISSN 0372-2112

CODEN TTHPAG

CN11- 2087 / TN



Q K 1 8 5 7 5 6 6

电子学报

DIANZI XUEBAO

ACTA ELECTRONICA SINICA

2018(10)

第 46 卷 第 10 期
Vol.46 No.10

ISSN 0372-2112



中国电子学会主办

9 770372 211007



学术论文

- 多值逻辑中基于 Camberra 模糊距离的量化方法 赵彬, 于鹏(2305)
SDN 中基于分布式决策的控制器负载均衡机制 胡涛, 张建辉, 邬江, 何伟, 江逸茗, 赵伟(2316)
一种基于 Q-Learning 策略的自适应移动物联网路由新算法 张德干, 葛辉, 刘晓欢, 张晓丹, 李文斌(2325)
基于干扰窃听的单双跳高频谱效率传输方案研究 冀保峰, 邢冰冰, 王一丹, 王丹, 李春国, 郑国强, 宋梁(2333)
软件定义网络一致性协同更新算法 于倡和, 兰巨龙, 胡宇翔(2341)
基于高斯混合模型的衍射成像算法 练秋生, 侯亚伟, 苏月明, 石保顺(2347)
圆迹变换及图像纹理分析 汪宇玲, 黎明(2351)
一种融合相位估计的深度卷积神经网络语音增强方法 袁文浩, 梁春燕, 夏斌, 孙文珠(2359)
基于直方图均衡化图像增强的两种改进方法 董丽丽, 丁畅, 许文海(2367)
深度卷积神经网络鉴别正交特征生成及其应用 杨勃, 邵泉铭, 李文彬, 郭观七, 方欣(2376)
一种非特征的 3D 图像快速刚性配准方法 周光兵, 宋华军, 吴玉兴, 任鹏(2384)
属性可撤销且密文长度恒定的属性基加密方案 赵志远, 朱智强, 王建华, 孙磊(2391)
基于广义低秩矩阵分解的分离字典训练及其快速重建算法 张长伦, 余沾, 王恒友, 何强(2400)
一种 NTRU 格上基于身份全同态加密体制设计 段然, 顾纯祥, 祝跃飞, 郑永辉, 陈莉(2410)
一个具有多个注册中心的双向认证与密钥协商协议 李雪莲, 李伟, 高军涛, 王海玉(2418)
面向全可编程网络数据平面的资源优化方法 申涓, 段通, 兰巨龙(2423)
GWO 与 ABC 的混合优化算法及其聚类优化 张新明, 王霞, 康强, 程金凤(2430)
一种峰均比抑制方法的研究 刘璐, 赵国庆(2443)
基于功放效率的 OFDM 信号幅度的最佳分布——峰均比抑制 胡峰, 蔡超时, 刘昌银, 姚冬萍, 宋洋(2450)
随机森林在程序分支混淆中的应用 陈喆, 贾春福, 宗楠, 郑万通(2458)
基于主动探测与被动截获协同的多源异类数据融合定位算法研究 杨军, 张萌(2467)
基于分治-贪心算法的高斯混合多观测站 CPHD 滤波器 曲长文, 冯奇, 李廷军(2472)
功率变流器传导干扰多通路频域模型研究 孟培培, 张向明, 张晋, 张杨生, 朱国荣(2480)
基于周期粒度的级间寄存器备份机制 王晶, 申娇, 丁利华, 杨星, 邱柯妮, 张伟功(2486)
纳米 SRAM 寄生双极晶体管效应的仿真研究 赵雯, 郭晓强, 陈伟, 罗尹虹, 王汉宁(2495)

综述评论

- PET/CT 图像分割及其发展现状 方玲玲, 邱天爽, 潘晓航, 乔明泽(2504)
纳米级 CMOS 集成电路的单粒子效应及其加固技术 赵元富, 王亮, 岳素格, 孙永姝, 王丹, 刘琳, 刘家齐, 王汉宁(2511)

科研通信

- 一种基于二维局部二值模式的纹理图像分类方法 王凯丽, 张艳红, 肖斌, 李伟生(2519)
多源协作的传输控制机制 权伟, 崔恩放, 张宏科(2527)
软硬件协同设计的 SEU 故障注入技术研究 王晶, 荣金叶, 周继芹, 于航, 申娇, 张伟功(2534)
基于 PLL 环路的卫星 QPSK 载波调制信号相位跟踪算法 田增山, 徐建, 周牧, 杨小龙(2539)
半导体器件内离子有效 LET 值测量方法研究 史淑廷, 郭刚, 刘建成, 蔡莉, 陈泉, 沈东军, 惠宁, 张艳文, 覃英参, 韩金华, 陈启明, 张付强, 殷倩, 肖舒颜(2546)
正确性保证的私有过程建模方法 莫启, 章建, 代飞, 朱锐, 林雷蕾, 李彤(2551)



Supported by the National Natural Science Foundation of China

ACTA ELECTRONICA SINICA
(Monthly)

Vol. 46 No. 10

Oct. 2018

PAPERS

- A Kind of Quantitative Method Based on Camberra Fuzzy Distance in Multiple-Valued Logic *ZHAO Bin, YU Peng* (2305)
Controller Load Balancing Mechanism Based on Distributed Policy in SDN *HU Tao, ZHANG Jian-hui, WU Jiang, HE Wei-wei, JIANG Yi-ming, ZHAO Wei* (2316)
A Kind of New Routing Algorithm with Adaptivity for Mobile IOT Based on Q-Learning *ZHANG De-gan, GE Hui, LIU Xiao-huan, ZHANG Xiao-dan, LI Wen-bin* (2325)
The Research on High Spectrum Efficiency Schemes of One and Dual-Hop Based on Interference Overhearing *JI Bao-feng, XING Bing-bing, WANG Yi-dan, WANG Dan, LI Chun-guo, ZHENG Guo-qiang, SONG Liang* (2333)
Synergetic Consistent Update Algorithm for SDN Networks *YU Chang-he, LAN Ju-long, HU Yu-xiang* (2341)
A Diffraction Imaging Algorithm Based on Gaussian Mixture Model *LIAN Qiu-sheng, HOU Ya-wei, SU Yue-ming, SHI Bao-shun* (2347)
Circular Trace Transform and Its Applications to Image Texture Analysis *WANG Yu-ling, LI Ming* (2351)
A Deep Convolutional Neural Network Based Speech Enhancement Approach Incorporating Phase Estimation *YUAN Wen-hao, LIAO Chun-yan, XIA Bin, SUN Wen-zhu* (2359)
Two Improved Methods Based on Histogram Equalization for Image Enhancement *DONG Li-li, DING Chang, XU Wen-hai* (2367)
Deep Convolutional Neural Networks Controlled by Discriminatively Orthogonal Feature Generation and Its Application *YANG Bo, SHAO Quan-ming, LI Wen-bin, GUO Guan-qian, FANG Xin* (2376)
A Non-Feature Fast 3D Rigid-Body Image Registration Method *ZHOU Guang-bing, SONG Hua-jun, WU Yu-xing, REN Peng* (2384)
Attribute-Based Encryption with Attribute Revocation and Constant-Size Ciphertext *ZHAO Zhi-yuan, ZHU Zhi-qiang, WANG Jian-hua, SUN Lei* (2391)
Separable Dictionary Training and Its Fast Reconstruction Algorithm Based on Generalized Low-Rank Matrix Approximation *ZHANG Chang-lun, YU Zhan, WANG Heng-you, HE Qiang* (2400)
An Identity-Based Fully Homomorphic Encryption Over NTRU Lattice *DUAN Ran, GU Chun-xiang, ZHU Yue-fei, ZHENG Yong-hui, CHEN Li* (2410)
A Mutual Authentication and Key Agreement Protocol with Multi-Registration Center *LI Xue-lian, LI Wei, GAO Jun-tao, WANG Hai-yu* (2418)
The Resource Optimization Towards Fully-Programmable Network Dataplane *SHEN Juan, DUAN Tong, LAN Ju-long* (2423)
Hybrid Grey Wolf Optimizer with Artificial Bee Colony and Its Application to Clustering Optimization *ZHANG Xin-ming, WANG Xia, KANG Qiang, CHENG Jin-feng* (2430)
A Method on Peak-to-Average Power Ratio Reduction *LIU Lu, ZHAO Guo-qing* (2443)
Optimal OFDM Amplitude Distribution Method with Maximal HPA Efficiency-Peak to Average Power Ratio Reduction *HU Feng, CAI Chao-shi, LIU Chang-yin, YAO Dong-ping, SONG Yang* (2450)
Branch Obfuscation Using Random Forest *CHEN Zhe, JIA Chun-fu, ZONG Nan, ZHENG Wan-tong* (2458)
Research on Multi Source Heterogeneous Data Fusion Location Algorithm Based on Active Detection and Passive Acquisition *YANG Jun, ZHANG Meng* (2467)
Multisensor CPHD Filter with Gaussian Mixture Implementation Based on Divide-Conquer and Greedy Algorithm *QU Chang-wen, FENG Qi, LI Ting-jun* (2472)
Research on Multiple-Paths Frequency-Domain Conducted Interference Modeling for Power Converters *MENG Pei-pei, ZHANG Xiang-ming, ZHANG Jin, ZHANG Yang-sheng, ZHU Guo-rong* (2480)
Backup Mechanism of Pipeline Register Based on Cycle Granularity *WANG Jing, SHEN Jiao, DING Li-hua, YANG Xing, QIU Ke-ni, ZHANG Wei-gong* (2486)
Simulation of Parasitic Bipolar Transistor Effect in Nanometric SRAM *ZHAO Wen, GUO Xiao-qiang, CHEN Wei, LUO Yin-hong, WANG Han-ning* (2495)

SURVEYS AND REVIEWS

- Research on PET/CT Image Segmentation and Its Development *FANG Ling-ling, QIU Tian-shuang, PAN Xiao-hang, QIAO Ming-ze* (2504)
Single Event Effect and its Hardening Technique in Nano-scale CMOS Integrated Circuits *ZHAO Yuan-fu, WANG Liang, YUE Su-ge, SUN Yong-shu, WANG Dan, LIU Lin, LIU Jia-qi, WANG Han-ning* (2511)

CORRESPONDENCE

- Texture Images Classification Based on Two Dimensional Local Binary Patterns *WANG Kai-li, ZHANG Yan-hong, XIAO Bin, LI Wei-sheng* (2519)
Multi-source Collaborative Transmission Control Mechanism *QUAN Wei, CUI En-fang, ZHANG Hong-ke* (2527)
The Research on Software-Hardware Co-designed SEU Fault-Injection Technology *WANG Jing, RONG Jin-ye, ZHOU Ji-qin, YU Hang, SHEN Jiao, ZHANG Wei-gong* (2534)
PLL Based Phase Tracking Algorithm for QPSK Modulated Satellite Carrier *TIAN Zeng-shan, XU Jian, ZHOU Mu, YANG Xiao-long* (2539)
Study of Measurement of the Ion Effective LET in Semiconductor Devices *SHI Shu-ting, GUO Gang, LIU Jian-cheng, CAI Li, CHEN Quan, SHEN Dong-jun, HUI Ning, et al.* (2546)
A Private Process Modeling Approach Guaranteeing Correctness *MO Qi, DA Jian, DAI Fei, ZHU Rui, LIN Lei-lei, LI Tong* (2551)

电子学报

2018年第10期 Acta Electronica Sinica No. 10 2018
(总第428期) (Monthly) (Series No. 428)

主管单位 中国科学技术协会
主办单位 中国电子学会
编辑 《电子学报》编辑委员会
主编 郝跃
通信地址 北京165信箱
(邮政编码100036)
电话 (010)68279116, 68285082
传真 (010)68173796
主页 <http://www.ejournal.org.cn>
电子邮箱 new@ejournal.org.cn
排版印刷 北京金港印刷有限公司
国内总发行 北京市报刊发行局
国外总发行 中国国际图书贸易总公司
国内订购处 全国各邮电局
中邮阅读网 <http://www.183read.com>

China Association for Science and Technology
Published by the Chinese Institute of Electronics
Edited by Editorial Board of Acta Electronica Sinica
Chief Editor: HAO Yue
Add: Editorial Office of Acta Electronica Sinica,
P. O. Box 165, Beijing 100036, China
Tel: 86-10-68279116, 68285082
Fax: 86-10-68173796

Printed by Beijing Jingang Printing Co., Ltd., Beijing, China
Distributed by
Domestic: Beijing Baokan Faxingju, China
Foreign: China International Book Trading Corporation
Subscription Office—All Local Post Offices in China