



ISSN 0372-2112

CODEN TTHPAG

CN 11-2087/TN

电子学报

DIANZI XUEBAO

ACTA ELECTRONICA SINICA

2022(1)

第 50 卷 第 1 期
Vol.50 No.1

ISSN 0372-2112

01>

9 770372 211229

中国电子学会主办

万方数据



无线光通信及其组网技术

客座编委:柯熙政,王天枢,王惠琴,郭忠义

- 空天地一体化无线光通信网络关键技术及其发展趋势……赵雄文,张 钰,秦 鹏,王晓晴,耿绥燕,宋俊元,刘 瑶,李思峰(1)
交叉相关双路分集OAM湍流光信道接收信号模拟研究……………熊琴琴,陈纯毅,于海洋,姚海峰,宋佳雪,娄 岩(18)
基于Kappa-mu/M分布的联合多用户分集与并行中继选择RF/FSO系统性能研究……………张敏惠,童 杨,王 怡(26)
室内可见光通信系统中基于压缩感知的空移键控信号检测方法……………左 婷,王法松,张建康,李 睿(36)
基于可见光通信技术的全双工以太网通信系统设计……卢霆威,王泽平,刘 梦,刘青青,陈 兵,林 岳,吴挺竹,陈 忠(45)

学术论文

- 一种基于RCGAN的水声通信信号降噪方法 ………………李勇斌,王 彬,邵高平,邵 帅(54)
结合结构特征基于测试集重排序的故障诊断方法……………欧阳丹彤,刘 扬,宋金彩,王浩然,张立明(63)
基于多层聚焦Inception-V3卷积网络的细粒度图像分类……………王 波,黄 冕,刘利军,黄青松,单文琦(72)
基于深度多级残差网络的低信噪比下空频分组码识别方法……………张聿远,张立民,闫文君(79)
基于变增益自抗扰技术的机器人轨迹跟踪控制方法……………张 磊,鲁 凯,高春侠,刘荣明,丁 浩,田 伟,洪 伟(89)
多播传输模式下的卫星通信安全波束成形算法……………林 敏,张 健,林 志,王子宁,郭克锋,欧阳键(98)
特征融合与灰色回归的滚动轴承性能退化评估……………杨创艳,马 军,王晓东,罗 亭,李卓睿(106)
基于地磁与空间上下文信息的半解析定向方法……………刘公绪,高新波,何立火,解 宇,路建民(116)
能效最大化准则下的星地融合网络的安全波束成形算法……………林 志,林 敏,黄清泉,赵 柏,顾晨伟,许 拔(124)
基于全光节点频谱集中度和频谱离散转换的业务调度方法……………刘焕淋,温 漾,陈 勇,任 杰,胡俊岭(135)
几类最优重根循环码的构造……………黄素娟,孙中华,朱士信(142)
基于关键用例获取的测试用例排序方法……………范书平,万 里,姚念民,张 岩,马宝英(149)
基于双目视觉的改进特征立体匹配方法……………王 笛,胡辽林(157)
基于快速模糊聚类的动态多直方图均衡化算法……………江巨浪,刘国明,朱 柱,黄 忠,郑江云(167)
面向帕金森病语音诊断的非监督两步式卷积稀疏迁移学习算法……………张小恒,张馨月,李勇明,王 品,刘玉川(177)
分数阶低通滤波器的优化设计研究……………何 雪,胡志忠(185)
基于前景感知视觉注意的半监督视频目标分割……………付利华,赵 宇,姜涵煦,赵 茹,吴会贤,闫绍兴(195)
基于噪声初始化、Adam-Nesterov方法和准双曲动量方法的对抗样本生成方法
……………邹军华,段晔鑫,任传伦,邱俊洋,周星宇,潘志松(207)
基于LSTM特征提取的有限新息率畸变信号重构……………刘 狄,钱 慧,王中风(217)

综述评论

- 医学图像关键点检测深度学习方法研究与挑战……………李居朋,王颖慧,李 刚(226)
图像多尺度几何分析域隐马尔可夫树模型研究进展……………王相海,宋若曦,曲思洁,穆振华,宋传鸣(238)

科研通信

- 融合字符级滑动窗口和深度残差网络的僵尸网络DGA域名检测方法……………刘小洋,刘加苗,刘 超,张宜浩(250)

期刊基本参数:CN 11-2087/TN * 1962 * m * A4 * 256 * zh * P * ¥ 80.00 * 1300 * 27 * 2022-1



Supported by the National Natural Science Foundation of China

ACTA ELECTRONICA SINICA

(Monthly)

Vol. 50 No.1

Jan. 2022

OPTICAL WIRELESS COMMUNICATION AND NETWORKING TECHNOLOGY

Guest Editors: KE Xi-zheng, WANG Tian-shu, WANG Hui-qin, GUO Zhong-yi

- Key Technologies and Development Trends for a Space-Air-Ground Integrated Wireless Optical Communication Network ZHAO Xiong-wen, ZHANG Yu, QIN Peng, WANG Xiao-qing, GENG Sui-yan, SONG Jun-yuan, LIU Yao, LI Si-feng (1)
Study on Simulation of Two Cross-Correlated Received Signals in Turbulent OAM Optical Diversity Channels XIONG Qin-qin, CHEN Chun-yi, YU Hai-yang, YAO Hai-feng, SONG Jia-xue, LOU Yan (18)
Performance Analysis of Multiuser Diversity and Parallel Relay Selection RF/FSO System over Kappa-mu/M Distribution Channels ZHANG Min-hui, TONG Yang, WANG Yi (26)
Space Shift Keying Signal Detection Approach Based on Compressed Sensing in Indoor VLC System ZUO Ting, WANG Fa-song, ZHANG Jian-kang, LI Rui (36)
Full-Duplex Indoor Ethernet Communication System Based on Visible Light Communication LU Ting-wei, WANG Ze-ping, LIU Meng, LIU Qing-qing, CHEN Bing, LIN Yue, WU Ting-zhu, CHEN Zhong (45)

PAPERS

- A Method of Noise Reduction for Underwater Acoustic Communication Signal Based on RCGAN LI Yong-bin, WANG Bin, SHAO Gao-ping, SHAO Shuai (54)
Fault Diagnosis Method Based on Test Set Reordering Combined with Structural Features OUYANG Dan-tong, LIU Yang, SONG Jin-cai, WANG Hao-ran, ZHANG Li-ming (63)
Multi-Layer Focused Inception-V3 Models for Fine-Grained Visual Recognition WANG Bo, HUANG Mian, LIU Li-jun, HUANG Qing-song, SHAN Wen-qi (72)
A Space-Frequency Block Code Recognition Based on Deep Multilevel Residual Network with Low SNR ZHANG Yu-yuan, ZHANG Li-min, YAN Wen-jun (79)
Path Tracking Control Method of Robot Based on Time-Varying Gain Active Disturbance Rejection Control ZHANG Lei, LU Kai, GAO Chun-xia, LIU Rong-ming, DING Hao, TIAN Wei, HONG Wei (89)
Secure Beamforming Algorithm for Satellite Communication in Multicast Transmission Mode LIN Min, ZHANG Jian, LIN Zhi, WANG Zi-ning, GUO Ke-feng, OUYANG Jian (98)
Feature Fusion and Grey Regression for Performance Degradation Assessment of Rolling Bearings YANG Chuang-yan, MA Jun, WANG Xiao-dong, LUO Ting, LI Zhuo-rui (106)
Semi-Analytical Orientation Method Based on Geomagnetism and Spatial Context Information LIU Gong-xu, GAO Xin-bo, HE Li-huo, XIE Yu, LU Jian-min (116)
Secure Beamforming Algorithm in Satellite-Terrestrial Integrated Networks with Energy Efficiency Maximization Criterion LIN Zhi, LIN Min, HUANG Qing-quan, ZHAO Bai, GU Chen-wei, XU Ba (124)
Service Scheduling Based on Spectrum Aggregation and Spectrum Discrete Conversion of Optical Node LIU Huan-lin, WEN Meng, CHEN Yong, REN Jie, HU Jun-ling (135)
On the Construction of Several Classes of Optimal Repeated-Root Cyclic Codes HUANG Su-juan, SUN Zhong-hua, ZHU Shi-xin (142)
Test Case Sorting Method Based on Key Use Cases Extracted FAN Shu-ping, WAN Li, YAO Nian-min, ZHANG Yan, MA Bao-ying (149)
Improved Feature Stereo Matching Method Based on Binocular Vision WANG Di, HU Liao-lin (157)
Dynamic Multi-Histogram Equalization Based on Fast Fuzzy Clustering JIANG Ju-lang, LIU Guo-ming, ZHU Zhu, HUANG Zhong, ZHENG Jiang-yun (167)
An Unsupervised Two-Step Convolution Sparse Transfer Learning Algorithm for Parkinson's Disease Speech Diagnosis ZHANG Xiao-heng, ZHANG Xin-yue, LI Yong-ming, WANG Pin, LIU Yu-chuan (177)
Research on Optimal Design of Fractional Order Lowpass Filters HE Xue, HU Zhi-zhong (185)
Semi-Supervised Video Object Segmentation Based on Foreground Perception Visual Attention FU Li-hua, ZHAO Yu, JIANG Han-xu, ZHAO Ru, WU Hui-xian, YAN Shao-xing (195)
Perturbation Initialization, Adam-Nesterov and Quasi-Hyperbolic Momentum for Adversarial Examples ZOU Jun-hua, DUAN Ye-xin, REN Chuan-lun, QIU Jun-yang, ZHOU Xing-yu, PAN Zhi-song (207)
Reconstruction of Distorted Signal with Finite Innovation Rate Based on LSTM Feature Extraction LIU Di, QIAN Hui, WANG Zhong-feng (217)

SURVEYS AND REVIEWS

- Research and Challenges of Medical Image Landmark Detection Based on Deep Learning LI Ju-peng, WANG Ying-hui, LI Gang (226)
Advance in Multiscale Geometric Analysis Image Hidden Markov Tree Model WANG Xiang-hai, SONG Ruo-xi, QU Si-jie, MU Zhen-hua, SONG Chuan-ming (238)

CORRESPONDENCE

- Novel Botnet DGA Domain Detection Method Based on Character Level Sliding Window and Deep Residual Network LIU Xiao-yang, LIU Jia-miao, LIU Chao, ZHANG Yi-hao (250)