

ISSN 1004-373X

CN 61-1224/TN

◎ 中国科技核心期刊 RCCSE中国核心学术期刊(A)

◎ 主办：陕西电子杂志社 陕西省电子技术研究所

Modern Electronics Technique

现代电子技术®

<http://www.xddz.com.cn>

2022

第45卷

Vol.45 No.01

01

目 次

通信与信息工程

- 基于FDTD的空间步进频雷达煤层异质区探测正演分析贺 顺, 罗彩祯, 杨志伟, 贾远航 (1)
- 基于BP神经网络的导航信号欺骗干扰检测潘海涛, 蔡成林 (7)
- 卫星网络下行链路基于NOMA的公平功率分配方案李 晖, 刘思恒, 林志阳, 陈 新 (11)
- 移动边缘计算中支持能量收集的卸载策略蒋欣秀, 杨俊东, 杨志军, 李 波, 丁洪伟 (17)
- 一种装备试验综合支持系统设计陈俞龙, 鞠进军, 涂建刚, 汪 辉 (24)
- 基于距离矢量的多传感器信息决策算法张凌飞, 马 俊, 陈博行 (30)
- 数据库模式的主动在线匹配方法庄 莉, 陈又咏, 黄双双, 丁 阳, 张 照 (34)

信号分析与图像处理

- 特征融合的灰狼优化粒子滤波目标跟踪算法任红格, 吴启隆, 史 涛 (40)
- 基于三维图形处理技术的景观设计系统设计与实现朱静怡, 田朝阳 (45)
- 融合TCN的时空域双流动态手势识别方法罗 标, 陈 勇 (50)
- 基于SVM与Meanshift跟踪算法的运动视频目标跟踪王彬彬 (56)
- 基于无人机数字图像的棉花出苗信息提取朱松松, 陈至坤, 张 怡 (61)
- 内河河道监视与浮萍识别系统设计葛淼彦, 李昌利, 曲兆松 (65)

网络与信息安全

- 基于卷积神经网络的回环检测算法李 晓, 马社祥, 李 啸 (72)
- 基于改进LVQ神经网络的乳腺肿瘤诊断赵小强, 张莺莺 (77)
- 深度特征融合与重构的微纤维识别算法吕璐璐, 陈树越, 王利平, 许 霞 (83)
- 基于PCA和改进PSO-GRU神经网络的气温预测杨迎新, 杜景林, 武 艳 (89)
- 基于特征选择和概率神经网络的心脏病预测张自豪, 胡维平 (95)

测控与自动化技术

- 改进词向量和kNN的中文文本分类算法·····丁正生, 马春洁 (100)
- 基于概率盒理论的负荷不确定性潮流计算·····丁家满, 陈芷欣 (104)
- 桥梁监测系统中智能决策专家系统的设计与实现·····廖 创, 李富年, 余兴胜, 闫俊锋, 林俊平 (110)
- 自适应S型曲线对电气布线机的速度规划·····王 凯, 郑 晟 (114)
- 一种基于PCA-IPSO的BiLSTM神经网络预测PM_{2.5}·····武 艳, 杜景林, 全 力, 滕 达 (119)

智能交通与导航

- 面向车联网多优先级任务的MEC计算卸载策略·····朱文霞, 冯兴乐, 刘静敏, 崔英英 (125)
- 诱导信息条件下驾驶路径选择行为分析·····陈秀锋, 陈 伟 (132)

电子技术及应用

- 随机子空间方法在去极化电流解谱中的应用·····周 凯, 王亚兰 (136)
- 基于NLF-LSTM的滚动轴承故障诊断方法·····彭 成, 蒋金元, 李凤娟 (142)
- 微网逆变器带不平衡非线性负载控制策略·····吴昊宇, 赵艳雷, 刘景余, 赵亭亭, 王呈阳, 杨梦宁 (149)
- 换流器并联运行的直流配电系统振荡分析·····刘 磊, 彭 克, 王 琳, 姚广增, 李喜东 (154)
- 基于IEEE标准的IJTAG单层网络测试方法·····黄 新, 宋博源, 郭晓敏, 林洁沁 (161)
- 电力电子开关电路的保阻尼二阶精度插值方法·····奕仲飞, 张 磊, 曹树立, 李博文 (166)
- 基于矢量量化的说话人识别系统硬件实现·····何赞园, 王 凯, 吉立新 (171)
- 基于云计算虚拟化技术的旅游信息平台设计·····薛 涛, 刘潇潇, 纪佳琪 (176)
- 多源检测数据融合的变压器故障诊断模型·····吴 琼, 崔昊杨, 周 坤, 许永鹏 (181)

声 明

本刊已许可国内外相关数据库和中国知网在其系列数据库产品中以数字化方式复制、汇编、发行、信息网络传播本刊全文。该社著作权使用费与本刊稿酬一并支付(相关稿酬不再另行支付)。作者向本刊提交文章发表的行为即视为同意我社上述声明。

Contents

Forward simulation of FDTD-based coal seam heterogeneous area detection by spatial stepping frequency radar	HE Shun, LUO Caizhen, YANG Zhiwei, JIA Yuanhang (1)
Navigation signal spoofing interference detection based on BP neural network	PAN Haitao, CAI Chenglin (7)
NOMA-based fair power allocation scheme for downlink of satellite network	LI Hui, LIU Siheng, LIN Zhiyang, CHEN Xin (11)
Computing offloading strategy supporting energy collection in mobile edge computing	JIANG Xinxu, YANG Jundong, YANG Zhijun, LI Bo, DING Hongwei (17)
Design of integrated supporting system for equipment test.....	CHEN Yulong, JU Jinjun, TU Jianguang, WANG Hui (24)
Multi-sensor information decision algorithm based on distance vector.....	ZHANG Lingfei, MA Jun, CHEN Bohang (30)
Active online matching approach for database schemas	ZHUANG Li, CHEN Youyong, HUANG Shuangshuang, DING Yang, ZHANG Zhao (34)
Features fused particle filtering object tracking algorithm based on gray wolf optimization algorithm	REN Hongge, WU Qilong, SHI Tao (40)
Design and implementation of landscape design system based on 3D graphic processing technology	ZHU Jingyi, TIAN Chaoyang (45)
Spatio-temporal domain two-stream dynamic gesture recognition method fusing TCN	LUO Biao, CHEN Yong (50)
Moving video object tracking based on SVM and Meanshift tracking algorithm	WANG Binbin (56)
Cotton seeding emergence information extraction based on UAV digital image	ZHU Songsong, CHEN Zhikun, ZHANG Yi (61)
Design of inland river monitoring and duckweed recognition system	GE Miaoyan, LI Changli, QU Zhaosong (65)
Loop closure detection algorithm based on convolutional neural network	LI Xiao, MA Shexiang, LI Xiao (72)
Breast tumor diagnosis based on improved LVQ neural network	ZHAO Xiaoqiang, ZHANG Yingying (77)
Microfiber recognition algorithm based on deep feature fusion and reconstruction	LÜ Lulu, CHEN Shuyue, WANG Liping, XU Xia (83)
Air temperature prediction based on PCA and improved PSO-GRU neural network	YANG Yingxin, DU Jinglin, WU Yan (89)
Heart disease prediction based on feature selection approach and probabilistic neural network	ZHANG Zihao, HU Weiping (95)
Improved Chinese text classification algorithm based on word embedding and kNN	DING Zhengsheng, MA Chunjie (100)
Probability box theory based power flow calculation with load uncertainty.....	DING Jiaman, CHEN Zhixin (104)
Design and implementation of intelligent decision expert system in bridge monitoring system	LIAO Chuang, LI Funian, YU Xingsheng, YAN Junfeng, LIN Junping (110)

- Electric wiring machine speed planning based on adaptive S-curve·····WANG Kai, ZHENG Sheng (114)
- PM_{2.5} prediction using BiLSTM neural network based on PCA-IPSO
·····WU Yan, DU Jinglin, QUAN Li, TENG Da (119)
- MEC computing offloading strategy for multi-priority tasks in the Internet of Vehicles
·····ZHU Wenxia, FENG Xingle, LIU Jingmin, CUI Yingying (125)
- Behavior analysis of driving route selection under condition of inducible information·····CHEN Xiufeng, CHEN Wei (132)
- Application of stochastic subspace method in depolarization current spectrum decomposition
·····ZHOU Kai, WANG Yalan (136)
- Rolling bearing fault diagnosis method based on NLF-LSTM·····PENG Cheng, JIANG Jinyuan, LI Fengjuan (142)
- Control strategy for microgrid inverter under unbalanced and nonlinear loads
·····WU Haoyu, ZHAO Yanlei, LIU Jingyu, ZHAO Tingting, WANG Chengyang, YANG Mengning (149)
- Oscillation analysis of DC distribution system with parallel converters
·····LIU Lei, PENG Ke, WANG Lin, YAO Guangzeng, LI Xidong (154)
- IJTAG single-layer network test method based on IEEE standards
·····HUANG Xin, SONG Boyuan, GUO Xiaomin, LIN Jieqin (161)
- Second order precision damping-preserving interpolation method for power electronic switching circuits
·····YI Zhongfei, ZHANG Lei, CAO Shuli, LI Bowen (166)
- Hardware implementation of speaker recognition system based on vector quantization
·····HE Zanyuan, WANG Kai, JI Lixin (171)
- Design of intelligent tourism information service platform based on cloud computing virtualization technology
·····XUE Tao, LIU Xiaoxiao, JI Jiaqi (176)
- Transformer fault diagnosis model based on multi-source detection data fusion
·····WU Qiong, CUI Haoyang, ZHOU Kun, XU Yongpeng (181)

本刊主要荣誉

中国科技核心期刊
RCCSE 中国核心学术期刊(A)
中国学术期刊影响因子年报统计源期刊
中国新闻出版总署资料库收藏期刊
中文科技期刊数据库全文收录期刊
中国学术期刊(光盘版)期刊
陕西省精品科技期刊
中国期刊全文数据库收录期刊
中国学术期刊综合评价数据库来源期刊
中国科技论文统计与分析用刊

声 明

1. 《现代电子技术》编辑部系陕西电子杂志社下辖《现代电子技术》杂志的唯一编辑、征稿部门,编辑部在社外无任何形式的组稿代理、外聘编辑等;
2. 作者投稿唯一通道为《现代电子技术》官方网站采编系统,且要求所有文章的通信作者为文章主要署名作者,不接受非署名作者投稿。