

ISSN 1004-373X
CN 61-1224/TN

- ◎ 中文核心期刊
- ◎ 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>

◆ 中国电子学会重点支持期刊



2019
第42卷
Vol.42 No.24
24

目 次

电子与信息器件

- PIN-TIA 光电探测器光电流检测电路的RLS去噪 舒斌, 颜科, 仲顺顺 (1)
基于Linux系统的智能装备高频信号无线监测系统设计 于洋, 张磊, 姚龙旭, 王辉 (5)
热损失型风速传感器流体动力学分析与实验研究 李东升, 刘清倦, 孙星, 吕鸣晨 (11)
基于FPGA的LED点阵显示控制方法 蒋中荣, 甘俊杰, 欧伟明 (16)
基于分段伽马变换的医用LED显示控制系统设计 尹景隆, 程宏斌, 王瑞光, 赵健博, 袁庆海 (20)
多协议智能快充电路的设计 刘有耀, 崔盼, 张烨晨 (25)
高可靠火焰探测器软件算法设计与测试 王冠鹰, 郑占旗, 宋文刚, 张立军 (30)
基于第一性原理的锰掺杂二维二硫族化物的电磁学特性研究 卿晓梅, 镇思琦 (34)
基于物联网的水质监测系统设计与实现 张娜, 杨永辉 (38)
适用于3D NAND的高稳定度的Capacitor-free LDO 万金梅, 刘飞, 曾子玉, 霍宗亮 (42)
基于LoRa的实验室设备实时状态监控系统设计 杜坤, 刘思江 (46)
源汇耦合的电子设备内自然对流换热的实验研究 战乃岩, 丁鹭, 柴宇惟, 徐玥 (50)
基于RFID技术的自适应分组标签防碰撞算法研究 许仙明, 吴敏, 吴静进, 胡小兵, 朱淑云 (55)
可延展电子通用金属互连结构电学特性分析 王文惠, 潘开林, 龚似明, 范凯 (59)
基于平面波导传感器的强约束型微纳光子结构成像教学系统 刘冬冬, 王继成 (63)
多机无线通信的室内监测系统 张恒, 董俊, 何舒平 (67)
太赫兹成像检测算法研究 李建蕊, 李九生, 史叶欣 (71)

计算机科学与应用

- 基于IOM模型的暴雨灾害经济损失评估系统设计 孙彩云 (75)
基于互译特征词对匹配的老-汉双语句子相似度计算方法研究 李思卓, 周兰江, 周枫, 张建安 (79)
基于TensorFlow平台的喷码字符日期码识别研究 阎晨阳, 罗晓曙, 何富运, 马玲 (84)
一种用于增强拼接图像成像质量的数据处理系统 孙颖馨 (88)
基于EIM总线传输的数据通信接口设计实现 乔霖, 李永红, 岳凤英 (92)
建筑簇群全景图像空间布局人工智能规划方法研究 田婧 (96)
基于微信平台的学习支持服务研究 赵安学, 邢洁清 (100)
一种异构分布式存储再生码变换原理 苗斌, 宋苗苗, 李文庆, 王文彦, 董国法, 王晓燕, 张可可, 徐宇柘, 管万春 (104)

航空航天航海技术

- 基于AVR单片机的四旋翼飞行器的设计曹鲁成,何晋,李珂,苏颖,晋春杰(108)
基于故障状态演化的高速公路机电设备智能维护系统设计徐红辉,王翀,范杰(112)
多电飞机直流负载系统稳定性分析孙毅刚,纪筱哲,刘哲旭(116)
基于LoRa的海上航行安全及应急救援系统设计
.....曾凤,肖天庭,任建新,赵仁港,王才才,周维康,王伟(121)

前沿交叉科学

- 基于嵌入式的群体感知骑行码表系统设计袁新娣,陈恳(125)
基于BP神经网络的实验诊断学教学数据分析与处理技术研究
.....董轲,卢毅,林芳,王希,李文瑶,张惠中(129)
基于虚拟现实的园林水景景石空间协调配置方法李星宁(133)
基于GP-DINA模型的学生多级评分的广义认知诊断模型研究王大洋,胡春红,卢秋婷(136)
集成学习在短文本分类中的应用研究王国薇,黄浩,周刚,胡英(140)
基于轮廓图像空频域特征的舞蹈翻腾姿态识别模型耿君(146)
基于多尺度卷积神经网络模型的手势图像识别袁荣尚,罗晓曙(150)
城市园林景观交错带空间格局三维重建系统设计丁志军(154)
功能脑网络规模对特征选择及分类的影响研究刘鸿丽,秦小麟,曹锐,陈俊杰,刘峰,郭浩(158)
虚拟现实技术下产品包装低碳环保的绿色设计姚英(163)

人工智能

- 基于树莓派和Arduino的WiFi远程控制智能家居系统设计李泽山,郭改枝(167)
基于改进遗传算法的移动机器人路径规划宋宇,王志明(172)
人工蜂群算法在空间定位的研究霍桂利(176)
基于词汇树检索的图书馆书目智能查询系统设计周洪宾(180)
提高能效的自主供电系统智能控制算法模型建立与仿真李红斌,王嘉伟,张晶晶,王蕊,窦晨(183)

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

RLS denoising for photocurrent detection circuit of PIN-TIA photodetector	SHU Bin, YAN Ke, ZHONG Shunshun (1)
Design of Linux system based high-frequency signal wireless monitoring system for intelligent equipment	YU Yang, ZHANG Lei, YAO Longxu, WANG Hui (5)
Fluid dynamics analysis and experimental study of heat-loss type wind speed sensor	LI Dongsheng, LIU Qingquan, SUN Xing, LÜ Mingchen (11)
Method of LED dot array display control based on FPGA	JIANG Zhongrong, GAN Junjie, OU Weiming (16)
Design of medical LED display control system based on segmented Gamma transform	YIN Jinglong, CHENG Hongbin, WANG Ruiguang, ZHAO Jianbo, YUAN Qinghai (20)
Design of multi-protocol intelligent fast charging circuit	LIU Youyao, CUI Pan, ZHANG Yechen (25)
Design and testing of software algorithm for high-reliability flame detector	WANG Guanying, ZHENG Zhanqi, SONG Wengang, ZHANG Lijun (30)
Research on first-principle based electromagnetic characteristics for Mn-doped two-dimensional dichalcogenide	QING Xiaomei, ZHEN Siqi (34)
Design and implementation of water quality monitoring system based on Internet of Things	ZHANG Na, YANG Yonghui (38)
High-stable Capacitor-free LDO suitable for 3D NAND	WAN Jinmei, LIU Fei, ZENG Ziyu, HUO Zongliang (42)
Design of LoRa-based real-time state monitoring system for laboratory equipment	DU Kun, LIU Sijiang (46)
Experimental study on natural convection heat transfer in source-sink coupled electronic equipment	ZHAN Nanyan, DING Lu, CHAI Yuwei, XU Yue (50)
Research on adaptive grouping tag anti-collision algorithm based on RFID technology	XU Xianming, WU Min, WU Jingjin, HU Xiaobing, ZHU Shuyun (55)
Analysis of electrical characteristic of extendable electronic universal metal interconnection structure	WANG Wenhui, PAN Kailin, GONG Siming, FAN Kai (59)
Strongly-constrained micro-nano photon structure imaging teaching system based on planar waveguide sensor	LIU Dongdong, WANG Jicheng (63)
Indoor monitoring system based on multi-machine wireless communication	ZHANG Heng, DONG Jun, HE Shuping (67)
Research on terahertz imaging detection algorithm	LI Jianrui, LI Jiusheng, SHI Yexin (71)
Design of IOM model based economic loss assessment system for rainstorm disaster	SUN Caiyun (75)
Laos-Chinese bilingual sentence similarity calculation method based on mutual translation feature word pair matching	LI Sizhuo, ZHOU Lanjiang, ZHOU Feng, ZHANG Jianan (79)
Research on inkjet character date code recognition based on TensorFlow platform	YAN Chenyang, LUO Xiaoshu, HE Fuyun, MA Ling (84)
A data processing system for enhancing imaging quality of mosaic image	SUN Yingxin (88)
Design and implementation of data communication interface based on EIM bus transmission	QIAO Lin, LI Yonghong, YUE Fengying (92)
Research on artificial intelligence planning method for spatial layout of panoramic image of building cluster	TIAN Jing (96)
Study on learning support service based on WeChat platform	ZHAO Anxue, XING Jieqing (100)
A transformation principle of regenerated code for heterogeneous distributed storage	MIAO Bin, SONG Miaomiao, LI Wenqing, WANG Wenyan, DONG Guofa, WANG Xiaoyan, ZHANG Keke, XU Yuzhe, GUAN Wanchun (104)
Design of four-rotor aircraft based on AVR MCU	CAO Lucheng, HE Jin, LI Ke, SU Ying, JIN Chunjie (108)

- Design of fault state evolution based intelligent maintenance system for electromechanical equipments on expressway XU Honghui, WANG Chong, FAN Jie (112)
- Stability analysis on direct-current load system of more-electric aircraft SUN Yigang, JI Xiaozhe, LIU Zhexu (116)
- Design of marine navigation safety and emergency rescue system based on LoRa ZENG Feng, XIAO Tianting, REN Jianxin, ZHAO Rengang, WANG Caicai, ZHOU Weikang, WANG Wei (121)
- Design of group sensing bike cyclocomputer HUD system based on embedded technology YUAN Xindi, CHEN Ken (125)
- Experimental diagnostics teaching data analysis and processing technology based on BP neural network DONG Ke, LU Yi, LIN Fang, WANG Xi, LI Wenyao, ZHANG Huizhong (129)
- Method of virtual reality based space coordination allocation for garden waterscape ornamental stones LI Xingning (133)
- Research on GP-DINA model based generalized cognitive diagnosis model for students' multi-level scoring WANG Dayang, HU Chunhong, LU Qiuting (136)
- Application of ensemble learning in short text classification WANG Guowei, HUANG Hao, ZHOU Gang, HU Ying (140)
- Dance somersault attitude identification model based on contour image spatial frequency domain feature GENG Jun (146)
- Gesture image recognition based on multi-scale convolution neural network model YUAN Rongshang, LUO Xiaoshu (150)
- Design of three-dimensional reconstruction system for spatial pattern of urban landscape intersection zone DING Zhijun (154)
- Effect of functional brain network scale on feature selection and classification LIU Hongli, QIN Xiaolin, CAO Rui, CHEN Junjie, LIU Feng, GUO Hao (158)
- Green design of low-carbon environmental friendly product packaging under virtual reality technology YAO Ying (163)
- Design of WiFi remote control smart home system based on Raspberry Pi and Arduinio LI Zeshan, GUO Gaizhi (167)
- Path planning of mobile robot based on improved genetic algorithm SONG Yu, WANG Zhiming (172)
- Research on artificial bee colony algorithm for spatial orientation HUO Guili (176)
- Design of library bibliographic intelligent query system based on vocabulary tree retrieval ZHOU Hongbin (180)
- Establishment and simulation of intelligent control algorithm model of autonomous power supply system for improving energy efficiency LI Hongbin, WANG Jiawei, ZHANG Jingjing, WANG Rui, DOU Chen (183)

本刊主要荣誉

- 中文核心期刊
- 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
- 美国《乌利希期刊指南》收录期刊

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》杂志的惟一编辑、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. 作者投稿惟一通道为《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。