

ISSN 1672-6944

CN 32-1675/TN



全民阅读 核心期刊

中国核心期刊（遴选）期刊

江苏省一级期刊

中国学术期刊网络出版总库（中国知网）全文收录

万方数据-数字化期刊群全文收录

中文科技期刊数据库（维普网）全文收录

无线互联科技

WIRELESS INTERNET TECHNOLOGY

主管：江苏省科学技术厅

主办：江苏省科学技术情报研究所

2019年1月 第02期 第16卷

No.02 Vol.16

2019 02

ISSN 1672-6944



万方数据

无线
互联
科技

第
二
期

二
〇
一
九
年
一
月

2004年创刊
2019年第2期
(总第150期)
第16卷
半月刊
2019年1月25日

主 管: 江苏省科学技术厅

主 办: 江苏省科学技术情报研究所

编辑出版: 《无线互联科技》杂志社

社 长: 李 敏

副社长: 李克贵

主 编: 严文强

副主编: 汤 溟

执行主编: 刘 鉴

编辑部主任: 姚 鑫

主任编辑: 顾培培

编 委: (按姓氏笔画为序)

王志功 王文鼎

陈如山 钱学荣

徐平平 黄风义

目 次

通信观察

-
- 1 无人机集群作战通信自组网的关键技术探讨 徐义桂 陈维义 吕玉萍
3 卫星移动通信系统发展及应用探究 朱 骏 陈海波 赵 鹏
5 中波发射台的雷电防护技术探究 边 飞
7 应用菲涅尔原理分析航向信标保护区范围 刘 亮
9 一类多线程综合通信管理器的设计和实现 陈容华 李方方
11 光纤耦合器的分类及发展前景分析 何修军
13 高职通信技术类课程SPOC+翻转课堂混合式教学设计
——以“光纤传输系统运维与管理”课程为例 赖 敏 李海涛

无线天地

-
- 16 大理州广播电视无线发射台站维护管理策略研究 杨志虎
18 基于LabVIEW的摇臂式波浪发电装置数据采集系统设计
张 伟 李德堂 蒋志勇 谢永和 吴百公
20 基于永磁同步电机的高性能交流伺服控制系统研究 梅立雪
22 基于GPRS的设备状态实时监测系统的设计 朱付保 李晓楠 刘艳云 高政源
27 物联网设备自身缺陷对隐私安全的挑战 俞杨建
29 基于STM32的激光投射虚拟键盘设计 朱春华 胡军委 邓淼磊
33 基于物联网的智慧水产养殖系统模型设计 胡 琼

网络地带

-
- 35 基于微信平台的校园信息传播分析 吴雪纯 张苗苗 董一琦 任 杰
37 智慧警务背景下应对网络新闻舆情的探索 周顶天 陈云峰
39 4G网络深度覆盖方式探讨 陈宁夏 崔 林
42 公民个人信息的网络安全保护策略研究 马 珂
44 基于网络舆情深度挖掘模式分析 艾克拜尔江·买买提
47 互联网在加强公安教育中的应用 安 翔 罗舒阳
49 基于神经网络的水稻不同生育周期长势预测模型 周 鹤 曹永忠

软件透视

-
- 52 物联网模式下大型贵重仪器设备开放共享平台的建设 范焯恩
54 惯性平台系统热设计方法综述 崔建鑫 杨孟兴 杨朋军
57 基于Moodle平台的自主学习过程监督与干预策略研究
廖黎莉 殷嘉佳 周 林 王 敏
60 基于移动端GPS和运动打卡APP的设计与实现 李方方 李维勇 李桂韬
62 分层技术在计算机软件开发中的应用分析 彭 璟
64 高速公路运营隧道智能化变配电监控系统的应用 凌广宇
66 基于微信公众平台的微课设计与研究
——以“网店装修美工”课程为例 陆青演 陈 红

设计分析

-
- 68 基于人脸识别技术的课堂考勤系统设计与实现 张欣蓓 刘 旭 王浩博 刘克楠
71 基于就业导向的计算机教学评价体系构建分析 陈虹宇
73 风电机组振动在线监测系统研究 包洪印 刘文斌 周博伟 谢丽蓉
75 基于FDC2214设计的手势识别系统 黄冬梅 王树鑫
77 建筑工程技术专业BIM体系的建设研究 李晓光 刘任峰 汤 闯

79 大数据环境下基于用户位置的个性化音乐推荐系统设计

朱志慧 田 婧 林 捷

81 基于MVC架构的精神疾病患者检查转运系统设计与实现

陈新磊 钟 炜 叶久峰

数字教育

84 蓝墨云班课在“计算机应用基础”课程教学中的应用效果分析 吴晓辉

86 “计算机网络”课程实验设置与教学 黄勇萍 谭呈祥

88 “电路分析”课程实验教学模式分析 田孝文

90 原型法在“移动编程基础”课程教学中的应用研究
邵国强 刘 春 张百顺 李宏博 张丽华

92 “互联网+”背景下教学模式研究——以“三维建模与工程图”课程为例
张卫芬 李永梅 钱 茹

94 基于云教学大数据的“焊接工艺项目”教学实践研究 韩 涛

96 基于微课的翻转课堂教学模式实践研究——以“计算机基础”课程为例
熊芳芳

98 微时代背景下高校图书馆微信公众平台创新服务探究
——以南京师范大学图书馆为例 蒋 南

实验研究

101 基于提升小波和直方图均衡化的MSR Retinex多参数融合方法的
真彩色图像增强 郝凡凡 吴粉侠

104 基于机器学习的无参考图像质量评价指标体系改进 樊晓婷 毕艳辉

107 基于R2CNN的自然场景图像中文本检测方法 沈伟生

110 大数据时代群体智能算法的优越性研究 吴宗卓

112 某发电厂1、2号锅炉湿式除渣改造至干式除渣的可行性分析 龚仁明

114 混合动力汽车制动系统结构与制动模式解析 操林娇

117 不同掺混比例甲醇汽油车的经济性试验研究 宋金环

科学管理

119 电子仪器仪表计量管理及维修探讨 谷军闪 李 超

121 计算机技术专业学位论文研究生实践能力培养研究 张 翔

123 应用型本科计算机网络技术教材的一体化建设思路与实践
张学林 洪晓彬 张新环 段红彩

126 现代远程教育自主学习能力培养的对策分析 刘 力

技术应用

128 局部阴影下光伏阵列全局最大功率跟踪技术研究
国 芳 夏 帅 周静超 薛 林

130 NFC技术在图书馆中的应用探析 谢 娴

133 BIM技术在绿色公共建筑设计中的应用 刘任峰

135 高校机房管理中桌面虚拟化技术的应用探讨 王海滨

137 大数据匿名化隐私保护技术综述 马 静

144 远程测控技术的发展现状和趋势 王逸凡

147 基于产教融合校企双主体的软件技术人才培养模式研究 卞楚文

149 徐州企业科技税收政策实施效果研究
——以研发费用加计扣除为例 闫 妍 周 丽 范文雯 宋一哲 梅 静

152 校企合作背景下职业教育教学模式改革研究
——以山东凯文科技职业学院为例 张文硕 张有志 马玉英

154 先进技术在“机械设计基础”教学中的应用 唐晓莲

157 基于移动云环境下的糖尿病药膳及运动治疗方案研究
田 彪 江智泉 管树桃 王 琳 欧阳锦屹 徐森荣

159 自我认知在“创业生存挑战——创业实训”项目中的应用 樊 琪 朱东方

162 贪吃蛇游戏设计 李 倩

164 翻转课堂在大学英语课堂上的应用 关 敬

166 当前高职院校大学生创业现状及对策分析 叶倩辉

中国标准连 ISSN 1672-6944

续出版物号: CN 32-1675/TN

邮发代号: 28-473

发行范围: 公开

发 行: 江苏省报刊发行局

南京市建邺区善修文化传播中心

账 号: 1035400000560379

开 户 行: 华夏银行南京城西支行

印 刷: 南京孚嘉印刷有限公司

定 价: 40.00元

《无线互联科技》杂志社

社 址: 江苏省南京市龙蟠路171号

电 话: (025)-85410367

(025)-85410361

邮 编: 210042

网 址: www.wxhlkj.net

邮 箱: hlkj@sti.js.cn

wxhlkj@163.com

咨 询 QQ: 171020757

户 名: 江苏省科学技术厅科技成果
档案馆

账 号: 4301012509002113436

开 户 行: 工商银行南京市板仓支行

WIRELESS INTERNET TECHNOLOGY

No.2 2019 (Total No.150)

CONTENTS

Discussion on key technologies of UAV cluster combat communication Ad hoc network	Xu Yigui, Chen Weiyi, Lyu Yuping (1)
Study on the development and application of satellite mobile communication system	Zhu Jun, Chen Haiibo, Zhao Peng (3)
Research on lightning protection technology of medium wave launching platform	Bian Fei (5)
Application of Fresnel principle to analyze the range of heading beacon protection area	Liu Liang (7)
Design and implementation of a class of multi-threading integrated communication manager	Chen Ronghua, Li Fangfang (9)
Analysis on the classification and development prospect of fiber couplers	He Xiujun (11)
Design of hybrid instructional SPOC+ flipped classroom in communication technology courses in higher vocational colleges: taking the “Operation and Management of Optical Fiber Transmission System” course as an example	Lai Min, Li Haitao (13)
Research on maintenance management strategy of radio and TV broadcasting launching stations in Dali prefecture	Yang Zhihu (16)
Design of data acquisition system of rocker arm type wave generator based on LabVIEW	Zhang Wei, Li Detang, Jiang Zhiyong, Xie Yonghe, Wu Baigong (18)
Research on the high performance AC servo control system based on permanent magnet synchronous motor	Mei Lixue (20)
Design of real time monitoring system for equipment status based on GPRS	Zhu Fubao, Li Xiaonan, Liu Yanyun, Gao Zhengyuan (22)
Internet of Things device’s own flaws challenge privacy security	Yu Yangjian (27)
Design of the laser projecting virtual keyboard based on STM32	Zhu Chunhua, Hu Junwei, Deng Miaolei (29)
Design of intelligent aquaculture system model based on Internet of Things	Hu Qiong (33)
Analysis on the campus information communication based on WeChat platform	Wu Xuechun, Zhang Miaomiao, Dong Yiqi, Ren Jie (35)
Exploration of public opinion response to network news under the background of intelligent policing service	Zhou Dingtian, Chen Yunfeng (37)
Discussion on the deep coverage schemes of 4G network	Chen Ningxia, Cui Lin (39)
Research on the network security protection strategy of citizen personal information security	Ma Ke (42)
Analysis on the deep mining mode based on network public opinion	Aikebaier Jiang · Maimaiti (44)
Application of the Internet in strengthening public security education	An Xiang, Luo Shuyang (47)
Prediction model of different growth cycle growth patterns of rice based on neural network	Zhou He, Cao Yongzhong (49)
Construction of an open sharing platform for large-scale valuable instruments and equipment under the Internet of Things mode	Fan Caicai (52)
Summary of thermal design methods for inertial platform system	Cui Jianxin, Yang Mengxing, Yang Pengjun (54)
Research on supervision and intervention strategies of autonomous learning process based on Moodle platform	Liao Lili, Yin Jiajia, Zhou Lin, Wang Min (57)
Design and implementation of based on mobile GPS and sports punch APP	Li Fangfang, Li Weiyong, Li Guitao (60)
Analysis on the application of layering technology in computer software development	Peng Jing (62)
Application of intelligent power transfer and distribution monitoring system in expressway operating tunnel	Ling Guangyu (64)
Design and research of microlecture based on WeChat public platform: taking the course of “Online Shop Decoration Art” as an example	Lu Qingyan, Chen Hong (66)
Design and implementation of classroom attendance system based on face recognition technology	Zhang Xinbei, Liu Xu, Wang Haobo, Liu Kenan (68)
Analysis on the construction of computer teaching evaluation system based on employment orientation	Chen Hongyu (71)
Research on online monitoring system of wind turbine vibration	Bao Hongyin, Liu Wenbin, Zhou Bowei, Xie Lirong (73)
Gesture recognition system based on FDC2214	Huang Dongmei, Wang Shuxin (75)
Research on the construction of BIM system for construction engineering technology major	Li Xiaoguang, Liu Renfeng, Tang Chuang (77)
Design of personalized music recommendation system based on user location in big data environment	Zhu Zhihui, Tian Jing, Lin Jie (79)
Design and implementation of mental health examination and transfer system based on MVC framework for mental patients	Chen Xinlei, Zhong Wei, Ye Jiufeng (81)

Analysis on the application effect of Moso teach in the teaching of “Computer Application Foundation” course	Wu Xiaohui (84)
Experimentd setup and teaching of “Computer Network” course	Huang Yongping, Tan Chengxiang (86)
Analysis on the experimental teaching mode of “Circuit Analysis” course	Tian Xiaowen (88)
Research on the application of prototype in teaching “Mobile Programming Foundation” course	Shao Guoqiang, Liu Chun, Zhang Baishun, Li Hongbo, Zhang Lihua (90)
Research on teaching mode under the background of “Internet +”: taking “3D Modeling and Engineering Drawing” course as an example	Zhang Weifen, Li Yongmei, Qian Ru (92)
Research on teaching practice of “Welding Process Project” based on cloud teaching big data	Han Tao (94)
Practical research on the flipped classroom teaching mode based on microlecture: take “Computer Foundation” course as an example	Xiong Fangfang (96)
Research on the Wechat media platform innovation service in university library: taking the library of Nanjing Normal University as an example	Jiang Nan (98)
Color image enhancement based on MSR Retinex parameter fusion of lifting wavelet and histogram equalization	Hao Fanfan, Wu Fenxia (101)
Improvement of index system of no reference image quality assessment based on machine learning	Fan Xiaoting, Bi Yanhui (104)
Text detection method in natural scene image based on R2CNN	Shen Weisheng (107)
Research on the superiority of swarm intelligence algorithm in the era of big data	Wu Zongzhuo (110)
Feasibility analysis on wet slag removal to dry slag removal in No.1 and No.2 boilers of a power plant	Gong Renming (112)
Analysis on the structure and braking mode of braking system of hybrid electric vehicle.....	Cao Linjiao (114)
Experimental study on the economy of methanol gasoline vehicle with different blending ratio	Song Jinhuan (117)
Discussion on the measurement management and maintenance of electronic instrumentation	Gu Junshan, Li Chao (119)
Study on the practical abilities culture of computer technology professional degree	Zhang Xiang (121)
Thoughts and practices on the integrated construction of applied undergraduate computer network technology textbooks	Zhang Xuelin, Hong Xiaobin, Zhang Xinhuan, Duan Hongcai (123)
Analysis on the countermeasure of the cultivation of autonomous learning ability in modern distance education.....	Liu Li (126)
Research on global maximum power tracking technology of photovoltaic array under local shadow	Guo Fang, Xia Shuai, Zhou Jingchao, Xue Lin (128)
Analysis on the application of NFC technology in the library	Xie Xian (130)
Application of BIM technology in green public building design	Liu Renfeng (133)
Discussion on the application of desktop virtualization technology in university computer room management	Wang Haibin (135)
Survey of big data anonymization privacy protection technology	Ma Jing (137)
Development status and trend of remote measurement and control technology.....	Wang Yifan (144)
Research on the training mode of software technology talents based on the integration of school and enterprise dual subjects	Kuang Chuwen (147)
Study on the implementation effect of science and technology tax policy in Xuzhou enterprise: taking research and development expenses and deductions as an example	Yan Yan, Zhou Li, Fan Wenwen, Song Yizhe, Mei Jing (149)
Research on the reform of vocational education and teaching mode under the background of school-enterprise cooperation: taking the Shandong Kaiwen College of Science & Technology as an example	Zhang Wenshuo, Zhang Youzhi, Ma Yuying (152)
Application of advanced technology in the teaching of “Mechanical Design Foundation”	Tang Xiaolian (154)
Study on diabetes diet and exercise treatment based on mobile cloud environment	Tian Biao, Jiang Zhiquan, Guan Shutao, Wang Lin, Ouyang Jinyi, Xu Senrong (157)
Application of self-cognition in the “Entrepreneurial Survival Challenge – Entrepreneurial Training” project	Fan Qi, Zhu Dongfang (159)
Design of snake game	Li Qian (162)
Application of flipped classroom in college English class	Guan Jing (164)
Analysis on the current situation and countermeasures of college students’ entrepreneurship in higher vocational colleges	Ye Qianhui (166)