

智能计算机与应用

第 10 卷 第 2 期

2020 年 2 月 1 日出版

目 次

· 学术研究与应用 ·

面向健康医疗的分类关联规则挖掘研究	孙明瑞, 臧天仪 (1)
基于 BERT-CNN 的电商评论情感分析	史振杰, 董兆伟, 庞超逸, 张百灵, 孙立辉 (7)
基于双未知输入扩展自校准滤波的火星大气进入段自主导航方法	杨海峰, 傅惠民 (12)
深度学习人脸识别技术在考勤系统的应用	刘 杰, 孙立民 (17)
基于多特征融合的高鲁棒性视觉 SLAM 改进算法	朱鸣镝, 陈 婵 (23)
基于 NVIDIA JetSon TX2 的无人机双目测距算法设计	樊建昌, 余 粟, 尚钰历 (29)
一种基于树搜索的层次多标签乳腺疾病分类诊断方法	金程笑, 潘 乔, 张敬谊, 俞春儒 (34)
基于 Java 语言编程计算机场污染物的排放量的研究	徐 冲, 陈志雄, 黄 成 (40)
基于线性递减权值更新的鸡群算法	李春红, 陆安江, 邵丽萍 (43)
基于滑动窗口的 CP-nets 增量式学习研究	何新新, 朱 阳 (48)
基于深度学习的风格迁移算法的研究与实现	王 鹿, 曾国辉, 黄 勃 (57)
船舶压载水快速测量仪的设计与应用研究	王 洋, 郭宝诚, 刘进涛 (61)
ICRH 阻抗匹配系统步进电机模糊控制研究	敬 丹, 阳璞琼, 侯文琦, 张锦涛, 刘 波 (66)
网站用户行为分析及服务推荐研究	张婉婷, 赵 敏 (71)
智能化背景下, 老年人数字鸿沟的影响因素及其形成过程分析	徐 越, 韵卓敏, 王婧媛, 景荣杰, 黄黎明, 沈 勤 (75)
基于 BP_K-C4.5 算法的高血脂辅助诊断系统	方克邦, 张云华 (83)
基于马尔科夫奖励过程的牵引系统可靠性评估	李小波, 褚 敏, 陆朱剑, 程岳梅, 田世贺 (89)
基于 Retinex 理论的图像去雾去噪算法	郑 敏 (93)
基于机器视觉的货车位姿调整系统设计	曹冲振, 曹美慧, 王凤芹, 王晶蕊, 梁世友 (97)

多任务孪生支持向量聚类算法	朱文文, 黄成泉, 阮 丽 (100)
基于改进 AdaBoost 算法的选股模型	贺 超, 吴 飞, 何 洋, 朱 海 (103)
基于 Stacking 的糖尿病预测方法研究	章 权, 周梁琦, 邹 琪, 喻新民 (107)
基于视觉的核电蒸汽发生器水室堵口圆心定位研究	熊雪琴, 王湘江 (111)
全球时装周活力指数服务系统设计	薛 冕, 陈莉莉, 丁佳惠 (116)
加权多任务最小二乘双支持向量机	阮 丽, 黄成泉, 朱文文 (120)
基于多神经网络协同训练的命名实体识别	王 栋, 李业刚, 张 晓 (123)
· 系统开发与应用 ·	
应用于物联网设备快速准确的虹膜分割方法	张 科 (128)
轨道板表面裂缝的热成像检测效果仿真分析	王登涛, 路宏遥, 孟翔震, 苗 壮, 赵晨晖 (132)
一种简化的布谷鸟搜索算法	李 辉 (138)
选择目标微云以最大程度地减少服务延迟	任子斌 (142)
基于磨损定量的地铁曲线钢轨波磨发展机理研究	郑灵霞, 尧辉明 (145)
网络犯罪下电子取证技术研究探索	李玲俐 (151)
轨道区间接触网立柱标志牌的定位研究	蒋丽洁, 柴晓冬, 李立明 (154)
基于 CNN 深度学习模型的大学生课堂行为检测研究	左国才, 苏秀芝, 王海东, 吴小平 (158)
长期护理保险模式可持续性比较	刘田静 (161)
智能手环协同汽车控制技术研究	黄明明, 朱向冰 (165)
基于 Creo 的设计助手二次开发设计	江 涛, 何法江 (168)
基于人脸识别的驾驶人员疲劳检测系统设计	靳明浩 (172)
基于改进 BRISK 算法的图像特征提取方法研究	陈 婵, 管 启, 朱鸣镛 (174)
基于 EKF 的高低温模型修正 SOC 估算方法	唐淳淳, 余 粟, 王 盟 (180)
永磁同步电机匝间短路故障建模及仿真分析	杨胜明, 吴钦木 (184)
无人驾驶背景下降雨对城市交通信号控制的影响研究	安喜才, 严 凌, 梁士栋, 陈玉蓉 (188)

基于 N 形模板的超声相控阵三维成像实现	朱铃琳 (194)
一种微小信号放大器电路的设计	秦德乐, 梁 蓓, 马 奎, 贾明俊 (196)
基于 Simulink 仿真的线性三自由度汽车操纵模型	严 帅, 张缓缓, 高 超, 李庆望 (200)
集成气象环境数据的门诊量预测研究	张家艳, 郑建立 (204)
简述上海市研发与转化功能型平台的经济绩效	王 宇 (208)
智能包包系统设计	杨雪梅, 王民慧 (211)
接触轨非接触检测系统设计与研究	封 硕, 柴晓冬, 郑树彬, 李立明 (215)
基于楔形金属外形干扰的氦氛激光谐振腔模式研究	何路遥, 李 阳, 高秀敏 (221)
“一带一路”沿线国家航空网络和贸易网络结构研究	戚 莹, 姚红光, 高 佩 (225)
基于 LSTM 的地震前兆数据分析算法设计与实现	王圆圆, 孙可可 (228)
· 专题设计与应用 ·	
基于 CNN 和 LSTM 混合模型的车辆行为检测方法	王 硕, 王岩松, 王孝兰 (232)
大数据背景下在线学习用户的隐私保护研究	张建珍, 牛煜艳, 李 强 (236)
基于激光传感器的轨距测量系统研究	高 昂, 柴晓冬, 李立明 (240)
基于循环神经网络模型的用户入侵行为检测与管控研究	唱姓嘉 (245)
基于 ANSYS 的中压开关柜电磁-温度场耦合仿真分析	李汉伟, 曾国辉, 刘 瑾 (250)
基于模糊信息聚类的应急管理资源调度模型	李云锋, 郑勇平, 刘 洋 (255)
江苏省未来 50 年城镇职工养老保险参保人口预测	王培雨 (259)
一种针对 BGP 会话的低速率分布式拒绝服务攻击模拟研究	张源良, 张 宇 (263)
基于 AHP 的老人生活满意度评估系统研究	邓佩云, 阎瑞霞, 潘 苹, 王兵兵 (267)
基于 C# 的社区老人服务管理系统的设计与实现	徐卫英, 朱正军, 候瑞林, 徐海斌, 杨 青 (272)
智能化背景下上海市经济增长的影响因素分析	匡 野 (274)
基于记忆效应的社交网络信息传播模型	王晓萌, 方滨兴, 张宏莉, 王 星 (278)
我国老年人再就业问题的研究热点与前沿—基于 CiteSpace 和 VOSviewer 的知识图谱分析	黎家艳, 李含伟, 张顺萍 (284)

· 科技创见与应用 ·

面向抢险应急调度的最短路径寻优规划算法	李云锋, 郑勇平, 刘洋 (290)
微束等离子弧焊气体流量配比的数值模拟	张兵, 何建萍, 张济楠 (293)
带金属嵌件的汽车接插件翘曲变形与残余应力研究	姚建冲, 廖秋慧, 祝璐琨 (297)
面向社交媒体的反讽识别	罗观柱, 赵妍妍, 秦兵, 刘挺 (301)
“互联网+”背景下社区智慧养老服务模式研究	陈嘉琳 (308)
一种证券标签分析技术的研究	兰子柠, 徐志明, 宋毅 (311)
“互联网+”视域下医养文相结合养老新模式的发展研究	简雪萍 (317)
基于 Chrome 调试协议的 Chromium 浏览器 V8 引擎漏洞检测方法	秦梦远, 傅忠传 (320)
目标管理导向下基层政府执行力指数研究	叶媛 (325)
基于上海医养结合“互联网+智慧医疗”模式研究	潘苹, 阎瑞霞, 邓佩云, 王兵兵 (329)
针对新顶级域名的 Web 浏览器行为测试与分析	刘文峰, 方滨兴, 张文佳 (333)
基于互联网的医患文化建设	王兵兵, 阎瑞霞, 邓佩云, 潘苹 (339)
面向 CUDA 程序的线程放置优化策略研究	谢根栓, 张伟哲 (341)
“互联网+”背景下的城市社区互助养老模式构建	丁艳琳 (346)
网页搜索排序模型研究	李明琦 (348)
“互联网+”乡村互助智慧养老型服务探究	汪子明 (353)
基于半监督学习的网络应用流识别研究	赵洋, 余翔湛, 郝科委 (355)
纳/微米双尺度 SiC 颗粒增强铝基复合材料的性能研究	王京, 孙安娜, 东星倩 (360)
基于 IPFS 的域名解析技术研究	刘姝言, 翟健宏 (365)
老人病房环境控制设计	苗家骥 (370)
基于文本中心线的自然场景文本检测方法	刘业鑫, 卜巍, 郭向前 (374)

Intelligent Computer and Applications

Vol.10 No.2 2020-2-1

CONTENTS

• Academic research and application •

Research on classification association rule mining for health care	<i>SUN Mingrui, ZANG Tianyi</i> (1)
Sentiment analysis of e-commerce reviews based on BERT-CNN	<i>SHI Zhenjie, DONG Zhaowei, PANG Chaoyi, ZHANG Bailing, SUN Lihui</i> (7)
Autonomous navigation method of mars atmospheric entry based on dual unknown-inputs extended self-calibration filter	<i>YANG Haifeng, FU Huimin</i> (12)
Application of deep learning face recognition technology in attendance system	<i>LIU Jie, SUN Limin</i> (17)
An improved algorithm of high robust visual SLAM based on multi-feature fusion	<i>ZHU Mingdi, CHEN Chan</i> (23)
Design of UAV binocular ranging algorithm based on NVIDIA JetSon TX2	<i>FAN Jianchang, YU Su, SAHNG Zhengli</i> (29)
Classification and prediction method of hierarchical multi-label breast disease based on tree search	<i>JIN Chengxiao, PAN Qiao, ZHANG Jingyi, YU Chunru</i> (34)
Study on the emission of computer field pollutants based on Java language	<i>XU Chong, CHEN Zhixiong, HUANG Cheng</i> (40)
Rooster algorithm based on linear decrement weight update	<i>LI Chunhong, LU Anjiang, SHAO Liping</i> (43)
CP-nets incremental learning algorithms from preference data streams based on sliding windows form	<i>HE Xinxin, ZHU Yang</i> (48)
Research and implementation of style transfer algorithm based on deep learning	<i>WANG Lu, ZENG Guohui, HUANG Bo</i> (57)
Design and application of a rapid ballast water measuring instrument	<i>WANG Yang, GUO Baocheng, LIU Jintao</i> (61)
Research on fuzzy control of stepping motor in ICRH impedance matching system	<i>JING Dan, YANG Puqiong, HOU Wenqi, ZHANG Jintao, LIU Bo</i> (66)
Website user behavior analysis and service recommendation research	<i>ZHANG Wanting, ZHAO Min</i> (71)
Analysis on the influencing factors and formation process of the digital divide of the elderly under the background of intelligence	<i>XU Yue, YUN Zhuomin, WANG Jingyuan, JING Rongjie, HUANG Liming, SHEN Qin</i> (75)
High blood lipid assisted diagnosis system based on BP_K-C4.5 algorithm	<i>FANG Kebang, ZHANG Yunhua</i> (83)
Reliability evaluation of traction system based on Markov reward process	<i>LI Xiaobo, CHU Min, LU Zhujian, CHENG Yuemei, TIAN Shihe</i> (89)
Image dehazing and detuning algorithm based on Retinex theory	<i>ZHENG Min</i> (93)
Design of position and posture adjustment system for freight cars based on machine vision	<i>CAO Chongzhen, CAO Meihui, WANG Fengqin, WANG Jingrui, LIANG Shiyou</i> (97)

Multi-task twin support vector clustering algorithm	ZHU Wenwen, HUANG Chengquan, RUAN Li (100)
Stock selection model based on improved AdaBoost algorithm	HE Chao, WU Fei, HE Yang, ZHU Hai (103)
Research on diabetes prediction method based on Stacking	ZHANG Quan, ZHOU Liangqi, ZOU Qi, YU Xinmin (107)
Vision-based location of water chamber closure center of nuclear power steam generator	XIONG Xueqin, WANG Xiangjiang (111)
Design of global fashion week vitality index service system	XUE Mian, CHEN Lili, DING Jiahui (116)
Weight mutli-task least squares twin support vector machine	RUAN Li, HUANG Chengquan, ZHU Wenwen (120)
Named entity recognition based on tri-training of multiple neural network	WANG Dong, LI Yegang, ZHANG Xiao (123)
· System development and application ·	
Fast and accurate iris segmentation on IoT devices	ZHANG Ke (128)
Simulation analysis of thermal imaging detection effect of cracks on track plate surface	WANG Dengtao, LU Hongyao, MENG Xiangzhen, MIAO Zhuang, ZHAO Chenhui (132)
A simplified cuckoo search algorithm	LI Hui (138)
Destination cloudlet selection to minimize service latency	REN Zibin (142)
Research on formation mechanism of metro curved rail corrugation based on wear quantification	ZHENG Lingxia, YAO Huiming (145)
Research and exploration of cyber-crime electronic forensics technology	LI Lingli (151)
Study on the positioning of the signs of the contact columns in the orbital interval	JIANG Lijie, CHAI Xiaodong, LI Liming (154)
Research on college students' classroom behavior detection based on CNN deep learning model	ZUO Guocai, SU Xiuzhi, WANG Haidong, WU Xiaoping (158)
Comparison of sustainability of long-term care insurance model	LIU Tianjing (161)
Intelligent bracelet cooperative control of vehicle design	HUANG Mingming, ZHU Xiangbing (165)
Creo - based design assistant secondary development	JIANG Tao, HE Fajiang (168)
Design of driver fatigue detection system based on face recognition	JIN Minghao (172)
Research on image feature extraction method based on improved BRISK algorithm	CHEN Chan, GUAN Qi, ZHU Mingdi (174)
Modified SOC estimation method for high and low temperature model based on EKF	TANG Chunchun, YU Su, WANG Meng (180)
Modeling and simulation analysis of Permanent Magnet Synchronous Motors with interturn short circuit fault	YANG Shengming, WU Qinmu (184)

Study on the influence of rainfall on urban traffic signal control under the background of unmanned vehicle	<i>AN Xicai, YAN Ling, LIANG Shidong, CHEN Yurong</i> (188)
Realization of ultrasonic phased array 3D imaging based on N-form template	<i>ZHU Linglin</i> (194)
Design of a small signal amplifier circuit	<i>QIN Dele, LIANG Bei, MA Kui, JIA Mingjun</i> (196)
The linear three-degree-of-freedom vehicle model based on Simulink simulation	<i>YAN Shuai, ZHANG Huanhuan, GAO Chao, LI Qingwang</i> (200)
Research on outpatient forecast with integrated meteorological and environmental data	<i>ZHANG Jiayan, ZHENG Jianli</i> (204)
Economic performance of Shanghai R& D and transformation functional platform	<i>WANG Yu</i> (208)
The design of intelligent bag system	<i>YANG Xuemei, WANG Minhui</i> (211)
Research on non-contact detection system of contact rail	<i>FENG Shuo, CHAI Xiaodong, ZHENG Shubin, LI Liming</i> (215)
Research on He-Ne laser cavity mode based on the interference of wedge-shaped metal	<i>HE Luyao, LI Yang, GAO Xiumin</i> (221)
Research on the network structure of aviation and trade in countries along “The Belt and Road”	<i>QI Ying, YAO Hongguang, GAO Pei</i> (225)
Design and implementation of seismic precursor data analysis algorithm based on LSTM	<i>WANG Yuanyuan, SUN Keke</i> (228)
Vehicle behavior detection method based on CNN and LSTM hybrid model	<i>WANG Shuo, WANG Yansong, WANG Xiaolan</i> (232)
• Specialized design and application •	
Research on privacy protection of online learning users in the context of big data	<i>ZHANG Jianzhen, NIU Yuyang, LI Qiang</i> (236)
Research on track gauge measurement system based on laser sensor	<i>GAO Ang, CHAI Xiaodong, LI Liming</i> (240)
Research on user intrusion detection and control based on cyclic neural network model	<i>CHANG Shenjia</i> (245)
Electromagnetic-temperature field coupling simulation analysis of medium voltage switchgear based on ANSYS	<i>LI Hanwei, ZENG Guohui, LIU Jin</i> (250)
Resource scheduling model for emergency management based on fuzzy information cluster	<i>LI Yunfeng, ZHENG Yongping, LIU Yang</i> (255)
Population forecast of urban workers’ endowment insurance in Jiangsu province in the next 50 years	<i>WANG Peiyu</i> (259)
A simulation study of low-rate distributed denial of service attack against BGP sessions	<i>ZHANG Yuanliang, ZHANG Yu</i> (263)
Research on life satisfaction assessment system for old people based on AHP	<i>DENG Peiyun, YAN Ruixia, PAN Ping, WANG Bingbing</i> (267)
Design and implementation of community service management system for the elderly based on C#	<i>XU Weiyong, ZHU Zhengjun, HOU Ruilin, XU Haibin, YANG Qing</i> (272)
An analysis of the influencing factors of Shanghai’s economic growth under the background of intelligence	<i>KUANG Ye</i> (274)
Memory effect based information diffusion model through online social networks	<i>WANG Xiaomeng, FANG Binxing, ZHANG Hongli, WANG Xing</i> (278)

Hotspots and frontiers of research on re-employment of the elderly in China—— based on the analysis of knowledge mapping of CiteSpace and VOSviewer	<i>LI Jiayan, LI Hanwei, ZHANG Shunping</i> (284)
· Scientific achievement and application ·	
A shortest path optimization scheme for emergency scheduling	<i>LI Yunfeng, ZHENG Yongping, LIU Yang</i> (290)
Numerical simulation of ratio of gas flow in micro-plasma arc welding	<i>ZHANG Bing, HE Jianping, ZHANG Jinan</i> (293)
Study on warpage deformation and residual stress of automotive connector with metal inserts	<i>YAO Jianchong, LIAO Qiuhui, ZHU Lukun</i> (297)
Social media-oriented sarcasm detection	<i>LUO Guanzhu, ZHAO Yanyan, QIN Bing, LIU Ting</i> (301)
Research on the mode of smart community elderly-care services under the background of "Internet Plus"	<i>CHEN Jialin</i> (308)
Research on a technology of securities market tags analysis	<i>LAN Zining, XU Zhiming, SONG Yi</i> (311)
Study on the development of the new mode of combining old-age care with the "Internet +" perspective	<i>JIAN Xueping</i> (317)
Chrome-debugging-protocol-based vulnerability detection method for V8 JavaScript engine embedded in Chromium Web browser	<i>QIN Mengyuan, FU Zhongchuan</i> (320)
Research on the execution force index of grassroots government under the goal management	<i>YE Yuan</i> (325)
Study on the model of "Internet + smart medicine" based on the combination of medical treatment and maintenance	<i>PAN Ping, YAN Ruixia, DENG Peiyun, WANG Bingbing</i> (329)
The behavior test and analysis of new top-level domain names in Web browsers	<i>LIU Wenfeng, FANG Binxing, ZHANG Wenjia</i> (333)
Internet-based medical and patient culture construction	<i>WANG Bingbing, YAN Ruixia, DENG Peiyun, PAN Ping</i> (339)
Research of thread placement optimization strategy for CUDA programs	<i>XIE Genshuan, ZHANG Weizhe</i> (341)
Construction of mutual aid system for urban community under the background of "Internet +"	<i>DING Yanlin</i> (346)
Research of Web search ranking model	<i>LI Mingqi</i> (348)
Research on "Internet +" rural cooperated smart pension service	<i>WANG Ziming</i> (353)
Research on network application stream recognition based on semi-supervised learning	<i>ZHAO Yang, YU Xiangzhan, HAO Kewei</i> (355)
Study on properties of nano/micron two scale SiC particle reinforced aluminum matrix composites	<i>WANG Jing, SUN Anna, DONG Xingqian</i> (360)
Research on domain name resolution technology based on IPFS	<i>LIU Shuyan, ZHAI Jianhong</i> (365)
Environment control design for elderly wards	<i>MIAO Jiakun</i> (370)
Text detection in natural scene based on text center line	<i>LIU Yexin, BU Wei, WU Xiangqian</i> (374)