

ISSN 1001-9081
CN 51-1307/TP
CODEN JYIIDU

计算机应用

JOURNAL OF
COMPUTER APPLICATIONS

四川省计算机学会 中国科学院成都分院 主办



- ☆ 中文核心期刊
- ☆ 两届国家期刊奖提名奖
- ☆ 全国优秀科技期刊一等奖
- ☆ 中国计算机学会会刊



微信公众号

2022年5月

May 2022

第42卷 第5期

Vol.42 No.5

国家期刊奖获奖期刊
中国期刊方阵“双奖”期刊

英国《科学文摘》(SA) 收录期刊
俄罗斯《文摘杂志》(AJ) 收录期刊
美国《剑桥科学文摘》(CSA) 收录期刊
德国《数学文摘》(Zentralblatt MATH) 收录期刊
波兰《哥白尼索引》(IC) 收录期刊
《日本科学技术振兴机构数据库》(JST) 收录期刊

中文核心期刊
中国科技核心期刊
RCCSE 中国核心学术期刊
中国科学引文数据库(CSCD) 刊源期刊
中国科技论文与引文数据库(CSTPCD) 统计源期刊
中国学术期刊综合评价数据库(CAJCED) 统计源期刊
中国核心期刊遴选数据库收录期刊
中文科技期刊数据库(VIP) 收录期刊
CEPS 中文电子期刊服务全文收录期刊

计 算 机 应 用

(Jisuanji Yingyong)

第 42 卷 第 5 期 2022 年 5 月

目 次

人工智能

融合字注释的文本分类模型	杨先凤,赵家和,李自强(1317)
融合语料库特征与图注意力网络的短文本分类方法	杨世刚,刘勇国(1324)
基于情感分析和影响力评估的突发事件情感图谱	仇丽青,曲福帅(1330)
融合知识图谱和差分隐私的新闻推荐方法	王利娥,李小聪,刘红翼(1339)
融合成对编码方案及二维卷积神经网络的长短期会话推荐算法	陈学勤,陶 涛,张钟旺,王一蕾(1347)
基于邻域粗糙集和帝王蝶优化的特征选择算法	孙 林,赵 婧,徐久成,王欣雅(1355)
融合学习心理学的人类学习优化算法	孟 晗,马 良,刘 勇(1367)
基于非负矩阵分解与稀疏表示的多标签分类算法	包永春,张建臣,杜守信,张军军(1375)
基于全局与局部标签关系的多标签图像分类方法	任 炜,白鹤翔(1383)
基于注意力机制学习域内变化的跨域行人重识别方法	陈代丽,许国良(1391)
基于非局部高分辨率网络的轻量化人体姿态估计方法	孙琪翔,何 宁,张敬尊,宏 晨(1398)
面向三维点云单目标跟踪的提案聚合网络	庄 屹,赵海涛(1407)
工业场景下基于秩信息对 YOLOv4 的剪枝	秦 晓,成 苗,张绍兵,何 莲,石向文,王品学,曾 尚(1417)
基于神经网络架构搜索的肺结节分类算法	谢新林,肖 毅,续欣莹(1424)
基于有效通道注意力的遥感图像场景分类	屈 震,李堃婷,冯志玺(1431)
基于深度特征融合的无纺布低对比度浆丝缺陷检测方法	鲁永帅,唐英杰,马鑫然(1440)

数据科学与技术

基于交叉层级数据共享的多任务模型	陈 颖,于 炯,陈嘉颖,杜旭升(1447)
密度峰值优化的球簇划分欠采样不平衡数据分类算法	刘学文,王继奎,杨正国,李 强,易纪海,李 冰,聂飞平(1455)
基于自适应近邻参数的密度峰聚类算法	周欢欢,郑伯川,张 征,张 琦(1464)
基于局部引力和距离的聚类算法	杜 洁,马 燕,黄 慧(1472)

网络空间安全

基于图像秘密共享的密文域可逆信息隐藏算法	王泽曦,张敏情,柯彦,孔咏骏(1480)
基于代码图像合成的Android恶意软件家族分类方法	李默,芦天亮,谢子恒(1490)
基于实用拜占庭容错的改进的多主节点共识机制	任秀丽,张雷(1500)

先进计算

基于长-短时序特征融合的资源负载预测模型	王艺霏,于雷,滕飞,宋佳玉,袁玥(1508)
基于正交自适应鲸鱼优化的云计算任务调度	张金泉,徐寿伟,李信诚,王重洋,徐景芝(1516)
基于阵列处理器的最小均方误差检测算法并行设计与实现	刘帅,蒋林,李远成,山蕊,朱育琳,王欣(1524)
指数函数多项式的实根分离算法	葛昕钰,陈世平,刘忠(1531)

网络与通信

基于终端直通通信的多用户计算卸载资源优化决策	李余,何希平,唐亮贵(1538)
传染病在多层星型耦合网络上的资源控制	张斯,张必山,马忠军(1547)

计算机软件技术

基于特征选择和TrAdaBoost的跨项目缺陷预测方法	李莉,石可欣,任振康(1554)
-----------------------------------	------------------

多媒体计算与计算机仿真

基于多通道注意力机制的图像超分辨率重建网络	张晔,刘蓉,刘明,陈明(1563)
基于并联卷积与残差网络的图像超分辨率重建	王汇丰,徐岩,魏一铭,王会真(1570)
基于半监督学习的单幅图像去雨算法	邱永茹,姚光乐,冯杰,崔昊宇(1577)
基于Order-Aware网络内点筛选网络的电力巡线航拍图像拼接	回立川,李万禹,陈艺琳(1583)
基于输电杆塔区域提取的图像匹配算法	郭可贵,曹瑞,万能,汪晓,尹悦,唐旭明,熊军林(1591)
基于Kinect v4的牛体尺测量方法	赵建敏,赵成,夏海光(1598)

前沿与综合应用

基于图注意力网络与双阶注意力机制的径流预报模型	胡鹤轩,隋华超,胡强,张晔,胡震云,马能武(1607)
基于双长短期记忆网络组合的网络货运平台成交定价预测模型	李由之,胡志华,陈春,杨培蓓,董雅静(1616)
基于改进遗传算法和图神经网络的股市波动预测方法	李晓寒,贾华丁,程雪,李太勇(1624)
基于改进的遗传算法的有刷直流电机PID参数整定	刘延飞,彭征,王艺辉,王忠(1634)
基于局部策略交互探索的深度确定性策略梯度的工业过程控制方法	邓绍斌,朱军,周晓锋,李帅,刘舒锐(1642)

广告

中钊科信	(封二)
2022年中国高校计算机教育大会征文通知	(封三)

Journal of Computer Applications

Vol. 42 No. 5 May 2022

Contents

Artificial intelligence

- Text classification model combining word annotations YANG Xianfeng, ZHAO Jiahe, LI Ziqiang(1317)
- Short text classification method by fusing corpus features and graph attention network YANG Shigang, LIU Yongguo(1324)
- Emotional map of emergency based on sentiment analysis and influence evaluation QIU Liqing, QU Fushuai(1330)
- News recommendation method with knowledge graph and differential privacy WANG Li'e, LI Xiaocong, LIU Hongyi(1339)
- Long short-term session-based recommendation algorithm combining paired coding scheme and two-dimensional conventional neural network
..... CHEN Xueqin, TAO Tao, ZHANG Zhongwang, WANG Yilei(1347)
- Feature selection algorithm based on neighborhood rough set and monarch butterfly optimization
..... SUN Lin, ZHAO Jing, XU Jiucheng, WANG Xinya(1355)
- Human learning optimization algorithm based on learning psychology MENG Han, MA Liang, LIU Yong(1367)
- Multi-label classification algorithm based on non-negative matrix factorization and sparse representation
..... BAO Yongchun, ZHANG Jianchen, DU Shouxin, ZHANG Junjun(1375)
- Multi-label image classification method based on global and local label relationship REN Wei, BAI Hexiang(1383)
- Cross-domain person re-identification method based on attention mechanism with learning intra-domain variance
..... CHEN Daili, XU Guoliang(1391)
- Lightweight human pose estimation method based on non-local high-resolution network
..... SUN Qixiang, HE Ning, ZHANG Jingzun, HONG Chen(1398)
- Proposal-based aggregation network for single object tracking in 3D point cloud ZHUANG Yi, ZHAO Haitao(1407)
- Pruning of YOLOv4 based on rank information in industrial scenes
..... QIN Xiao, CHENG Miao, ZHANG Shaobing, HE Lian, SHI Xiangwen, WANG Pinxue, ZENG Shang(1417)
- Lung nodule classification algorithm based on neural network architecture search XIE Xinlin, XIAO Yi, XU Xinying(1424)
- Remote sensing image scene classification based on effective channel attention QU Zhen, LI Kunting, FENG Zhixi(1431)
- Low contrast filament sizing defect detection method of non-woven fabric based on deep feature fusion
..... LU Yongshuai, TANG Yingjie, MA Xinran(1440)

Data science and technology

- Cross-layer data sharing based multi-task model CHEN Ying, YU Jiong, CHEN Jiaying, DU Xusheng(1447)
- Imbalanced data classification algorithm based on ball cluster partitioning and undersampling with density peak optimization
..... LIU Xuwen, WANG Jikui, YANG Zhengguo, LI Qiang, YI Jihai, LI Bing, NIE Feiping(1455)
- Density peak clustering algorithm based on adaptive nearest neighbor parameters
..... ZHOU Huanhuan, ZHENG Bochuan, ZHANG Zheng, ZHANG Qi(1464)
- Clustering algorithm based on local gravity and distance DU Jie, MA Yan, HUANG Hui(1472)

Cyber security

- Reversible data hiding algorithm in encrypted domain based on secret image sharing
..... WANG Zexi, ZHANG Mingqing, KE Yan, KONG Yongjun(1480)

Android malware family classification method based on code image integration LI Mo, LU Tianliang, XIE Ziheng(1490)
Improved multi-primary-node consensus mechanism based on practical Byzantine fault tolerance REN Xiuli, ZHANG Lei(1500)

Advanced computing

Resource load prediction model based on long-short time series feature fusion
..... WANG Yifei, YU Lei, TENG Fei, SONG Jiayu, YUAN Yue(1508)
Cloud computing task scheduling based on orthogonal adaptive whale optimization
..... ZHANG Jinquan, XU Shouwei, LI Xincheng, WANG Chongyang, XU Jingzhi(1516)
Parallel design and implementation of minimum mean square error detection algorithm based on array processor
..... LIU Shuai, JIANG Lin, LI Yuancheng, SHAN Rui, ZHU Yulin, WANG Xin(1524)
Real root isolation algorithm for exponential function polynomials GE Xinyu, CHEN Shiping, LIU Zhong(1531)

Network and communications

Multi-user computation offloading and resource optimization policy based on device-to-device communication
..... LI Yu, HE Xiping, TANG Lianggui(1538)
Resource control of infectious disease in multi-layer star coupling network ZHANG Si, ZHANG Bishan, MA Zhongjun(1547)

Computer software technology

Cross-project defect prediction method based on feature selection and TrAdaBoost LI Li, SHI Kexin, REN Zhenkang(1554)

Multimedia computing and computer simulation

Image super-resolution reconstruction network based on multi-channel attention mechanism
..... ZHANG Ye, LIU Rong, LIU Ming, CHEN Ming(1563)
Image super-resolution reconstruction based on parallel convolution and residual network
..... WANG Huifeng, XU Yan, WEI Yiming, WANG Huizhen(1570)
Single image de-raining algorithm based on semi-supervised learning QIU Yongru, YAO Guangle, FENG Jie, CUI Haoyu(1577)
Power line inspection aerial image stitching based on Order-Aware network internal point screening network
..... HUI Lichuan, LI Wanyu, CHEN Yilin(1583)
Image matching algorithm based on transmission tower area extraction
..... GUO Kegui, CAO Rui, WAN Neng, WANG Xiao, YIN Yue, TANG Xuming, XIONG Junlin(1591)
Cattle body size measurement method based on Kinect v4 ZHAO Jianmin, ZHAO Cheng, XIA Haiguang(1598)

Frontier and comprehensive applications

Runoff forecast model based on graph attention network and dual-stage attention mechanism
..... HU Hexuan, SUI Huachao, HU Qiang, ZHANG Ye, HU Zhenyun, MA Nengwu(1607)
Prediction model of transaction pricing in internet freight transport platform based on combination of dual long short-term memory networks
..... LI Youzhi, HU Zhihua, CHEN Chun, YANG Peibei, DONG Yajing(1616)
Stock market volatility prediction method based on improved genetic algorithm and graph neural network
..... LI Xiaohan, JIA Huading, CHENG Xue, LI Taiyong(1624)
PID parameter tuning of brushed direct-current motor based on improved genetic algorithm
..... LIU Yanfei, PENG Zheng, WANG Yihui, WANG Zhong(1634)
Industrial process control method based on local policy interaction exploration-based deep deterministic policy gradient
..... DENG Shaobin, ZHU Jun, ZHOU Xiaofeng, LI Shuai, LIU Shurui(1642)