

- ❖ 英国《科学文摘》(INSPEC) 来源期刊
- ❖ 俄罗斯《文摘杂志》(AJ) 来源期刊
- ❖ 美国《乌利希期刊指南(网络版)》(Ulrichsweb) 收录期刊
- ❖ 2017—2019 年中国国际影响力优秀学术期刊(自然科学与工程技术)
- ❖ 第二届国家期刊奖百种重点科技期刊
- ❖ 中国科技核心期刊 ❖ 全国中文核心期刊
- ❖ 中国科技论文统计源期刊
- ❖ 中国学术期刊综合评价数据库来源期刊
- ❖ RCCSE 核心学术期刊 ❖ 中国期刊方阵双效期刊
- ❖ 《日本科学技术振兴机构数据库》(JST) 来源期刊
- ❖ 美国《艾博思科学数据库》(EBSCO) 全文来源期刊
- ❖ 美国《剑桥科学文摘(自然科学)》(CSA (NS)) 核心期刊
- ❖ 波兰《哥白尼索引》(IC) 来源期刊
- ❖ 中国科学引文数据库(CSCD) 来源期刊
- ❖ 《中文科技期刊数据库》来源期刊
- ❖ 《中国期刊网》《中国学术期刊(光盘版)》来源期刊
- ❖ 中国精品科技期刊顶尖学术论文(F5000)项目来源期刊
- ❖ 《电子科技文献数据库》来源期刊
- ❖ 《中国工程技术电子信息网》来源期刊

计算机应用研究
Jisuanji Yingyong Yanjiu
第 38 卷 第 4 期 2021 年 4 月

目 次

综述评论

知识表示学习方法研究综述	张正航,钱育蓉,行艳妮,赵 鑫(961)
生成对抗网络 GAN 的研究进展	张恩琪,顾广华,赵 晨,赵志明(968)
精简高效用模式挖掘综述	孙 蕊,韩 萌,张春砚,申明尧,杜诗语(975)
代码注释自动生成研究进展	赵乐乐,张丽萍(982)

区块链技术

基于 MPT 建模的属性访问控制策略	郑 鑫,黄德校,王高才(990)
谎报行为下基于区块链的物流服务商道德风险防范研究	李军祥,张 志(997)

算法研究探讨

基于指针网络的实体与关系联合抽取方法	王勇超,穆华岭,周灵智,邢 卫(1004)
基于实体相似性的知识表示学习方法	文 洋,张茂元,周礼全,张洁琼,袁贤其(1008)
基于 IMU 紧耦合的 LeGO-LOAM 改进算法研究	陈文浩,刘辉席,杨林涛,刘守印(1013)
一种文本幽默对比的 Siamese 双向 GRU 注意力模型	顾 艳,夏鸿斌,刘 渊(1017)
KEK: 基于 k-truss 的短文本关键词提取方法	杨朝举,葛唯益,王 羽,徐 建(1022)
民航旅客行程状态推断方法研究	彭明田,赵 越(1027)
基于双通道词向量的 ACRNN 文本分类	邢 鑫,孙国梓(1033)
基于 Boosting 的迭代加权集成分类算法	杜诗语,韩 萌,申明尧,张春砚,孙 蕊(1038)
基于语音流畅度与模糊聚类的精神分裂症自动识别	周格屹,田 婷,王宁远,邓丽华,何 凌,李元媛(1044)
基于特征交互与权重集成的癌症分类方法	陈昊楠,金 敏(1051)
融合评分矩阵和评论文本的深度神经网络推荐模型	周传华,于 猜,鲁 勇(1058)
基于混合蛙跳算法的高维生物医学数据特征选择方法	代永强,郭小燕,王 敏,孙嫣娇(1062)
基于多任务学习的多语言语音情感识别方法	薛艳飞,毛启容,张建明(1069)
融合上下文信息的深度推荐模型	胡朝举,郑 浩(1074)
PipeCNN: 一种基于软件流水线的并行化卷积神经网络方法	吴 鹏,周宁宁(1079)
联合结构化图学习与 L_1 范数谱嵌入的鲁棒聚类算法	汤立伟,张家珲,彭 勇,孔万增(1084)
虚拟化云计算数据中心资源节能调度算法研究	宁士勇(1088)
基于大批量训练和正交正则化的跨模态哈希方法	张学旺,周 印(1092)
基于基因水平多样性的微种群教与学优化算法	王筱薇,范勤勤,王维莉(1097)
电动汽车分时租赁用户预约分配问题的新型电磁场优化算法求解	赵 桐,刘 勇(1102)

系统应用开发

- 意愿计算的股市突变点预测方法 姚宏亮,董伟伟,王 浩,杨 静(1108)
云制造环境下基于 SVM 的加工设备资源分类研究 徐东升,陈友玲,刘 舰,谢 蓉,吴 璐(1113)
基于 IPSO-BSVM 的小样本数据不均衡下的设备健康预测研究 位晶晶,刘勤明,叶春明,陈 翔(1119)
不确定环境下多机器人编队控制研究 吴军成,肖宇峰,霍建文(1123)
政府规制下不确定回收量的闭环供应链决策研究 李 芳,陈 玲,马 鑫(1128)
基于无人机辅助 VANET 的两层架构 邸 剑,李 晴,蔡 震(1133)
基于自适应分层的 3D 打印成型方向优化 石立伟,陈 兴,王军伟,刘 洋(1139)

网络与通信技术

- 基于网联车多跳传输的移动边缘计算卸载 邸 剑,薛 林,蔡 震(1145)
基于 IK-means 聚类的分簇路由算法 李 雪,南建国(1149)
支持边缘端—云端协同工作的群组命令传输算法 颜晓莲,邱晓红(1154)
基于角度域的 FDD 大规模 MIMO 系统开销优化 马国富,陈知行(1158)

信息安全技术

- 两个安全的无证书三方认证密钥协商协议 许盛伟,任雄鹏(1165)
基于 MILP 搜索的 ANU 算法积分分析 袁 征,朱 亮,赵晨曦,刘宗甫(1171)
基于高效假轨迹的隐私保护算法研究 王海涛,田可可,王 辉,刘 静(1175)
面向属性加密数据的可验证细粒度关键字密文搜索 林素青,王秋艳,张书华,周 金(1179)
可追踪且可撤销的基于 OBDD 访问结构的 CP-ABE 方案 汪倩倩,欧毓毅(1185)
基于自注意力机制的图像隐写分析方法 黄思远,张敏情,柯 彦,毕新亮(1190)
基于 SOM 网络的差分隐私保护研究 叶欣欣,杨高明,方贤进,施 雨(1195)
格上基于 RLWE 难题的身份基代理重加密方案 汤永利,刘 琦,张晓航,叶 青,王永军(1199)

图形图像技术

- 纹理细节和边缘结构保持的图像插值算法 付鹏斌,铁惠杰,杨惠荣(1203)
基于生成式对抗网络的画作图像合成方法 赵宇欣,王 冠(1208)
基于改进注意力迁移的实时目标检测方法 张 驰,刘宏哲(1212)
基于难样本挖掘的孪生网络目标跟踪 亢 洁,孙 阳,沈钧戈(1216)
基于概率假设密度的近邻目标快速跟踪算法 王 颖(1220)
基于增强特征融合网络的行人再识别 邓 滔,杨 娟,汪荣贵,薛丽霞(1224)
面向安防监控场景的低分辨率人脸识别算法研究 卢 峰,周 琳,蔡小辉(1230)
T-STAM: 基于双流时空注意力机制的端到端的动作识别模型 石祥滨,李怡颖,刘 芳,代 钦(1235)
基于非对称双分支交互神经网络的水下生物识别 赵 力,宋 威(1240)
鲁棒可预测判别字典学习人脸识别方法 张 健,米建勋(1245)
多视觉目标融合的图像情感分析研究 缪裕青,雷庆庆,张万桢,周 明,文益民(1250)
基于图像视野划分的公共场所人群计数模型 袁 健,王姗姗,罗英伟(1256)
基于卷积神经网络的语义分割算法研究 熊 炜,童 磊,金婧熠,王传胜,王 娟,曾春艳(1261)
基于数据内在结构特征的度量学习 张开放,郎贵林,王晓明,黄增喜,杜亚军(1265)
基于深度残差反投影注意力网络的图像超分辨率 胡高鹏,陈子鎏,王晓明,张开放,黄增喜,杜亚军(1271)
基于相邻层间相似性和空体素跳跃的体绘制加速算法研究 敖 山,刘梦颖,李保锟,刘志中(1277)

信息集萃

- 下期要目 (1234)

期刊基本参数:CN51-1196/TP * 1984 * m * A4 * 320 * zh * P * ¥ 50.00 * 3840 * 61 * 2021-04 * n

本期责任编辑 黄 莉,何 俐

Application Research of Computers

Vol. 38 No. 4 Apr. 2021

Contents

Survey

Survey of knowledge representation learning methods	Zhang Zhenghang, Qian Yurong, Xing Yanni, et al. (961)
Research progress on generative adversarial network	Zhang Enqi, Gu Guanghua, Zhao Chen, et al. (968)
Survey of algorithms for concise high utility pattern mining	Sun Rui, Han Meng, Zhang Chunyan, et al. (975)
Review on code comment automatic generation	Zhao Lele, Zhang Liping(982)

Technology of Blockchain

MPT modeling based on attribute access control strategy	Zheng Xin, Huang Dexiao, Wang Gaocai(990)
Research on prevention of moral hazard of logistics service providers based on blockchain	Li Junxiang, Zhang Zhi(997)

Algorithm Research & Explore

Joint extraction method of entity and relationship based on pointer network	Wang Yongchao, Mu Hualing, Zhou Lingzhi, et al. (1004)
Entity similarity based knowledge graph embedding	Wen Yang, Zhang Maoyuan, Zhou Liqian, et al. (1008)
Research on improved LeGO-LOAM algorithm based on IMU tight coupling	Chen Wenhao, Liu Huixi, Yang Lintao, et al. (1013)
Siamese bidirectional GRU attention model for humor text comparison	Gu Yan, Xia Hongbin, Liu Yuan(1017)
KEK: short text keyword extraction method based on k-truss	Yang Chaoju, Ge Weiyi, Wang Yu, et al. (1022)
Study on inference for itinerary status of civil aviation passengers	Peng Mingtian, Zhao Yue(1027)
Dual-channel word vectors based ACRNN for text classification	Xing Xin, Sun Guozi(1033)
Boosting-based iterative weighted ensemble classification algorithm	Du Shiyu, Han Meng, Shen Mingyao, et al. (1038)
Automatic recognition of schizophrenia based on speech fluency and fuzzy clustering	Zhou Geyi, Tian Ting, Wang Ningyuan, et al. (1044)
Cancer classification method based on feature interaction and weight integration	Chen Haonan, Jin Min(1051)
Recommendation model of deep neural network combining rating matrix and review text	Zhou Chuanhua, Yu Cai, Lu Yong(1058)
Feature selection of high-dimensional biomedical data based on shuffled frog leaping algorithm	Dai Yongqiang, Guo Xiaoyan, Wang Min, et al. (1062)
Multi-language speech emotion recognition based on multi-task learning	Xue Yanfei, Mao Qirong, Zhang Jianming(1069)
Deep recommendation model with context information	Hu Chaoju, Zheng Hao(1074)
PipeCNN: parallelization of convolutional neural network based on software pipeline technology	Wu Peng, Zhou Ningning(1079)
Robust clustering algorithm based on joint structured graph learning and l_1 -norm spectral embedding	Tang Liwei, Zhang Jiahui, Peng Yong, et al. (1084)
Research on resource energy saving scheduling algorithm for virtual cloud computing data center	Ning Shiyong(1088)
Cross-modal hashing method based on large batch training and orthogonal regularization	Zhang Xuewang, Zhou Yin(1092)
Micro-population teaching-learning-based optimization based on gene level diversity	Wang Xiaowei, Fan Qinjin, Wang Weili(1097)
New electromagnetic field optimization algorithm for user's appointment allocation in time sharing lease of electric vehicles	Zhao Tong, Liu Yong(1102)

System Development & Application

Prediction method of stock market mutation point prediction with willingness calculation	Yao Hongliang, Dong Weiwei, Wang Hao, et al. (1108)
--	---

Research on resource classification of processing equipment based on SVM in cloud manufacturing environment	Xu Dongsheng, Chen Youling, Liu Jian, et al. (1113)
Equipment health prognosis based on IPSO-BSVM under small and imbalanced sample data	Wei Jingjing, Liu Qinming, Ye Chunming ,et al. (1119)
Research on multi-robot formation control in uncertain environment	Wu Juncheng, Xiao Yufeng, Huo Jianwen(1123)
Decision research on closed-loop supply chain of uncertain recycle quantity under government regulation	Li Fang, Chen Ling, Ma Xin(1128)
Two-tier architecture based on drone-assisted VANET	Di Jian, Li Qing, Cai Zhen(1133)
Optimization of build orientation in 3D printing based on adaptive layering	Shi Liwei, Chen Xing, Wang Junwei, et al. (1139)

Technology of Network & Communication

Mobile edge computing offloading based on multi-hop transmission of connected vehicles	Di Jian, Xue Lin, Cai Zhen(1145)
Clustering routing algorithm based on IK-means clustering	Li Xue, Nan Jianguo(1149)
Group command transfer algorithm for edge-cloud cooperative work	Yan Xiaolian, Qiu Xiaohong(1154)
Research on cost optimization of large-scale MIMO system in FDD	Ma Guofu, Chen Zhixing(1158)

Technology of Information Security

Two secure certificateless authenticated tripartite key agreement protocols	Xu Shengwei, Ren Xiongpeng(1165)
Integral cryptanalysis on ANU based on MILP	Yuan Zheng, Zhu Liang, Zhao Chenxi ,et al. (1171)
Research on privacy protection algorithm based on efficient fake trajectory	Wang Haitao, Tian Keke, Wang Hui ,et al. (1175)
Verifiable fine-grained keyword search over attribute-based encrypted data	Lin Suqing, Wang Qiuyan, Zhang Shuhua,et al. (1179)
Traceable and revocable CP-ABE scheme OBDD-based access structure	Wang Qianqian, Ou Yuyi(1185)
Image steganalysis based on self-attention	Huang Siyuan, Zhang Minqing, Ke Yan,et al. (1190)
Differential privacy data protection based on SOM network	Ye Xinxin, Yang Gaoming, Fang Xianjin, et al. (1195)
Identity-based proxy re-encryption scheme based on RLWE problem	Tang Yongli, Liu Qi, Zhang Xiaohang, et al. (1199)

Technology of Graphic & Image

Image interpolation algorithm based on texture details and edge structure maintained	Fu Pengbin, Tie Huijie, Yang Huirong(1203)
Painterly image composition based on generative adversarial net	Zhao Yuxin, Wang Guan(1208)
Real time object detection method based on improved attention transfer	Zhang Chi, Liu Hongzhe(1212)
Siamese network object tracking based on hard sample mining	Kang Jie, Sun Yang, Shen Junge(1216)
Fast tracking algorithm based on probability hypothesis density for close-spaced target	Wang Ying(1220)
Enhanced feature convergent network for person re-identification	Deng Tao, Yang Juan, Wang Ronggui, et al. (1224)
Research on low-resolution face recognition algorithm for security surveillance scene	Lu Feng, Zhou Lin, Cai Xiaohui(1230)
T-STAM: end-to-end action recognition model based on two-stream network with spatio-temporal attention mechanism	Shi Xiangbin, Li Yiyi, Liu Fang, et al. (1235)
Asymmetric two-branch interactive neural network for underwater image classification	Zhao Li, Song Wei(1240)
Robust discriminative K-SVD network for face recognition	Zhang Jian, Mi Jianxun(1245)
Research on image sentiment analysis based on multi-visual object fusion	Miao Yuqing, Lei Qingqing, Zhang Wanzen, et al. (1250)
Public place crowd counting model based on image field division	Yuan Jian, Wang Shanshan, Luo Yingwei(1256)
Research on semantic segmentation algorithm based on convolutional neural network	Xiong Wei, Tong Lei, Jin Jingyi, et al. (1261)
Metric learning based on intrinsic structural characteristics of data	Zhang Kaifang, Lang Guilin, Wang Xiaoming, et al. (1265)
Image super-resolution based on depth residual back projection attention network	Hu Gaopeng, Chen Ziliu, Wang Xiaoming, et al. (1271)
Research on accelerating volume rendering algorithm based on similarity between adjacent-layers and void voxel jump	Ao Shan, Liu Mengying, Li Baokun, et al. (1277)