

- ❖ 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 12 期 2021 年 12 月

目 次

综述评论

- | | | |
|----------------------|-------|-----------------------|
| 姿态情绪识别研究综述 | ..... | 许芬, 阎文彬, 张晓平(3521) |
| 不同场景的联邦学习安全与隐私保护研究综述 | ..... | 孙爽, 李晓会, 刘妍, 张兴(3527) |
| 多模态知识图谱构建与应用研究综述 | ..... | 陈烨, 周刚, 卢记仓(3535) |

区块链技术

- | | | |
|----------------------|-------|-------------------------|
| 基于双链的可扩展物联网模型 | ..... | 武海霞, 黄建华, 邵兴辉, 麦勇(3544) |
| DPoS 区块链共识机制的改进研究 | ..... | 何帅, 黄襄念, 刘谦博, 江杨靖(3551) |
| 基于区块链技术的农产品供应链演化博弈研究 | ..... | 崔铁军, 姚万焕(3558) |

算法研究探讨

- | | | |
|----------------------------------|-------|-------------------------------|
| 基于多用户决策效用的侦察无人机路径规划算法 | ..... | 刘泽原, 赵文栋, 赵佳宜, 刘存涛, 李艾静(3564) |
| 基于多分辨率特征和时频注意力的环境声音分类 | ..... | 刘慧, 李小霞, 何宏森(3569) |
| 基于图神经网络的方面级情感分析 | ..... | 张合桥, 苟刚, 陈青梅(3574) |
| 基于网络拓扑重合度的关键节点识别方法 | ..... | 朱敬成, 刘辉, 王伦文, 吴涛(3581) |
| 基于上下文强化八叉树网络三维模型语义分割算法 | ..... | 杨茂男, 贾庆轩, 李旭龙, 苗雨(3586) |
| 基于知识图嵌入的协同过滤推荐算法 | ..... | 张屹晗, 王巍, 刘华真, 谷壬倩, 郝亚奇(3590) |
| 基于分层社交关系的微博推荐算法 | ..... | 徐建民, 申永平, 吴树芳(3597) |
| 基于 DESMID-AD 动态选择的类别不平衡信用评估模型 | ..... | 向欣, 陆歌皓(3604) |
| 面向 HYCOM 的高分辨率海洋数据同化并行算法优化 | ..... | 曹连雨, 张桂赵, 肖俊敏, 洪学海, 谭光明(3611) |
| 基于图神经网络与深度学习的商品推荐算法 | ..... | 冯兴杰, 生晓宇(3617) |
| 动态串行机制多元宇宙优化算法 | ..... | 杨文珍, 何庆(3623) |
| 基于头脑风暴算法的 FastSLAM2.0 算法 | ..... | 朱代先, 王明博, 刘树林, 郭苹(3629) |
| 改进麻雀搜索算法求解作业车间调度问题 | ..... | 刘丽娜, 南新元, 石跃飞(3634) |
| 融合 Lévy 飞行和精英反向学习的 WOA-SVM 多分类算法 | ..... | 何小龙, 张刚, 陈跃华, 杨尚志(3640) |
| 基于迁移学习的讽刺检测 | ..... | 李垒昂, 马鸿超, 周清雷(3646) |
| 精英反向与二次插值改进的黏菌算法 | ..... | 郭雨鑫, 刘升, 张磊, 黄倩(3651) |
| 属性权重未知 picture 模糊多属性决策方法及其应用 | ..... | 韩二东(3657) |
| 融入变异交叉的改进牛顿法求解 TSP 及工程应用 | ..... | 吕昱呈, 莫愿斌(3662) |

基于单值中智集的协同过滤推荐算法	李 鹏,苏忻洁,白世贞(3667)
基于类圆映射的多目标粒子群优化算法	戴永彬(3673)
有约束竞争选址问题的降阶回溯算法	傅汤毅,宁爱兵,孙智勇,林道晗,张惠珍(3678)
基于 p 阶最大相关熵准则损失函数的鲁棒极限学习机	张秋桥,王 冰,汪海姗(3683)

系统应用开发

基于多因子几何匹配的AI提取路网属性信息重建方法	李志超,王艳东,贾若霖(3688)
虚拟人引导的脑电信号重要性选择与识别	杨淑莹,郭杨杨,田 迪,赵 敏(3692)
全局收敛的带有输出约束柔性关节机械臂分段控制	陈泓宇,董秀成,杨 勇,刘久台(3697)
基于拆卸序列的多部件设备机会维护策略研究	梅嘉健,刘勤明,吴擘晟(3703)
面向持续集成的回归测试优化方法	胡 鹏,常朝稳,祝现威,肖警续(3709)

网络与通信技术

基于几何随机的无人机3D信道模型	郭梦婷,张治中,邓炳光(3715)
V2G网络中基于带宽自适应的拥塞控制协议优化	姜雨菲,梁向阳,唐俊勇(3719)
基于RNN的多传感器融合室内定位方法	王甘楠,田 昕,魏国亮,周 军(3725)
基于非泊松点过程建模的微基站部署研究	周 童,程 方,张治中,邓炳光(3730)
基于聚类信息和对称非负矩阵分解的链路预测模型研究	陈广福,王海波(3733)
毫米波大规模MIMO系统中基于PAST算法的低复杂度混合预编码	周 笑,蒋 锐,徐友云(3739)

信息安全技术

面向多变体系统的执行体多样性度量方法	陈玉枚,扈红超,王亚文,全 青(3744)
博弃论模型下基于运动矢量的视频隐写算法	邱 枫,钮 可,陈 培,李 军(3752)
基于Peano曲线扫描的大容量密文域可逆信息隐藏方案	葛 虞,张敏情,杨 盼(3756)
基于特征加权聚合的图像检索目标对抗攻击方法	杨 帆,李 阳,苗 壮,张 睿,王家宝,李 航(3760)
工业互联网中增强安全的云存储数据访问控制方案	张亚兵,王 健,邢 镶(3765)

图形图像技术

基于改进三元组损失的伪造人脸视频检测方法	杨 挺,朱希安,张 帆(3771)
融合图像场景与目标显著性特征的图像描述生成方法	盛 豪,易尧华,汤梓伟(3776)
基于视频描述和阅读理解的视频问答研究	胡锦祥,孟朝晖(3781)
融合多分支残差与仿射变换的低照度图像增强	黄仁婧,崔 虎,陈青梅,黄初华(3786)
基于增强型图卷积的骨架识别模型	兰 红,何 璐,张蒲芬(3791)
基于双模态输入的孪生网络目标跟踪算法	刘子龙,王 晨(3796)
基于最小类内方差的伪三维残差网络	谢超宇,秦 玉,张开放,王晓明(3801)
轻量型图像分类神经网络改进研究	王光宇,张海涛(3808)
基于空间特征变换与反投影的渐进式图像超分辨	秦 玉,谢超宇,王晓明,陈子鑑(3814)
基于门控卷积残差网络的卫星图像道路提取	肖昌城,吴 锡(3820)
面向细粒度图像的数据关联代理损失	苟光磊,杨 雨,朱东旭(3826)
基于骨骼特征Hough变换的行为识别研究	周同驰,张 毅,瞿博阳,王延召,陶爱民(3831)
基于融合多层卷积特征的显著性区域提取	杨金凯,王国中(3835)

信息集萃

下期要目	(3656)
------	--------

期刊基本参数:CN51-1196/TP * 1984 * m * A4 * 320 * zh * P * ¥50.00 * 3840 * 57 * 2021-12 * n

Application Research of Computers

Vol. 38 No. 12 Dec. 2021

Contents

Survey

Survey on gesture-based emotion recognition researches	Xu Fen, Run Wenbin, Zhang Xiaoping(3521)
Survey on security and privacy protection in different scenarios of federated learning	Sun Shuang, Li Xiaohui, Liu Yan, et al. (3527)
Survey on construction and application research for multi-modal knowledge graphs	Chen Ye, Zhou Gang, Lu Jicang(3535)

Technology of Blockchain

Scalable IoT model based on dual blockchains	Wu Haixia, Huang Jianhua, Shao Xinghui, et al. (3544)
Research on improvement of DPoS blockchain consensus mechanism	He Shuai, Huang Xiangnian, Liu Qianbo, et al. (3551)
Research on evolutionary game of agricultural products supply chain based on blockchain technology	Cui Tiejun, Yao Wanhan(3558)

Algorithm Research & Explore

Reconnaissance UAVs path planning algorithm based on multi-user decision utility	Liu Zeyuan, Zhao Wendong, Zhao Jiayi, et al. (3564)
Environmental sound classification based on multi-resolution features and time-frequency attention	Liu Hui, Li Xiaoxia, He Hongsen(3569)
Aspect-based sentiment analysis based on graph neural network	Zhang Heqiao, Gou Gang, Chen Qingmei(3574)
Method for identifying key nodes based on overlap of network topology	Zhu Jingcheng, Liu Hui, Wang Lunwen, et al. (3581)
Semantic segmentation of 3D model based on context-reinforced octree network	Yang Maonan, Jia Qingxuan, Li Xulong, et al. (3586)
Collaborative filtering recommendation algorithm based on knowledge graph embedding	Zhang Yihan, Wang Wei, Liu Huazhen, et al. (3590)
Algorithm of micro-blog recommendation based on hierarchical social relationships	Xu Jianmin, Shen Yongping, Wu Shufang(3597)
Class-imbalance credit scoring using DESMID-AD	Xiang Xin, Lu Gehao(3604)
Parallel optimization algorithm of high resolution ocean data assimilation for HYCOM	Cao Lianyu, Zhang Guizhao, Xiao Junmin, et al. (3611)
Item recommendation algorithm based on GNN and deep learning	Feng Xingjie, Sheng Xiaoyu(3617)
Dynamic multi-serial mechanism MVO optimization algorithm	Yang Wenzhen, He Qing(3623)
FastSLAM2.0 algorithm based on brain storm optimization	Zhu Daixian, Wang Mingbo, Liu Shulin, et al. (3629)
Improved sparrow search algorithm for solving Job-Shop scheduling problem	Liu Lina, Nan Xinyuan, Shi Yuefei(3634)
Multi-class algorithm of WOA-SVM using Lévy flight and elite opposition-based learning	He Xiaolong, Zhang Gang, Chen Yuehua, et al. (3640)
Sarcasm detection based on transfer learning	Li Lei' ang, Ma Hongchao, Zhou Qinglei(3646)
Elite opposition-based learning quadratic interpolation slime mould algorithm	Guo Yuxin, Liu Sheng, Zhang Lei, et al. (3651)
Picture fuzzy multi-attribute decision making method with unknown attribute weight and its application	Han Erdong(3657)
Improved beetle antennae search algorithm with mutation crossover in TSP and engineering application	Lyu Yucheng, Mo Yuanbin(3662)
Collaborative filtering recommendation algorithm based on single-valued neutrosophic set	Li Peng, Su Xinjie, Bai Shizhen(3667)
Multi-objective particle swarm algorithm based on quasi-circular mapping	Dai Yongbin(3673)
Backtracking algorithm with reduction for constrained competitive location problem	Fu Tangyi, Ning Aibing, Sun Zhiyong, et al. (3678)
Robust extreme learning machine based on p order maximum correntropy criterion loss function	Zhang Qiucqiao, Wang Bing, Wang Haishan(3683)

System Development & Application

- Attribute information reconstruction method of road network extracted by AI based on multi-factor geometric matching Li Zhichao, Wang Yandong, Jia Ruolin (3688)
- Importance selection and recognition of EEG signals guided by virtual human Yang Shuying, Guo Yangyang, Tian Di, et al. (3692)
- Globally convergent segmented control of flexible joint manipulator with output constraints Chen Hongyu, Dong Xiucheng, Yang Yong, et al. (3697)
- Research on opportunistic maintenance strategy for multi-component equipment based on disassembly sequence Mei Jiajian, Liu Qinming, Wu Bosheng (3703)
- Regression testing optimization method for continuous integration Hu Peng, Chang Chaowen, Zhu Xianwei, et al. (3709)

Technology of Network & Communication

- Geometry-based stochastic model for three-dimensional UAV channel Guo Mengting, Zhang Zhizhong, Deng Bingguang (3715)
- Optimization of congestion control protocol based on bandwidth adaptive in V2G network Jiang Yufei, Liang Xiangyang, Tang Junyong (3719)
- Multi-sensor fusion indoor localization method based on RNN Wang Gannan, Tian Xin, Wei Guoliang, et al. (3725)
- Pico base station deployment based on non-Poisson point process modeling Zhou Tong, Cheng Fang, Zhang Zhizhong, et al. (3730)
- Link prediction model based on clustering information and symmetric non-negative matrix factorization Chen Guangfu, Wang haibo (3733)
- Low-complexity hybrid precoding based on PAST for millimeter wave massive MIMO system Zhou Xiao, Jiang Rui, Xu Youyun (3739)

Technology of Information Security

- Executors diversity metric for multi-variant systems Chen Yumei, Hu Hongchao, Wang Yawen, et al. (3744)
- Video steganography algorithm based on motion vector in game theory model Qiu Feng, Niu Ke, Chen Pei, et al. (3752)
- High capacity reversible data hiding in encrypted image based on Peano curve scanning Ge Yu, Zhang Minqing, Yang Pan (3756)
- Targeted adversarial attack method for image retrieval based on feature weighted aggregation Yang Fan, Li Yang, Miao Zhuang, et al. (3760)
- Security-enhanced data access control for multi-authority cloud storage in industrial Internet Zhang Yabing, Wang Jian, Xing Bin (3765)

Technology of Graphic & Image

- Fake face video detection method based on improved triplet loss Yang Ting, Zhu Xi'an, Zhang Fan (3771)
- Image caption based on fusion of image scene and target saliency feature Sheng Hao, Yi Yaohua, Tang Ziwei (3776)
- Research on video question answering based on video description and reading comprehension Hu Jinxiang, Meng Zhaozhi (3781)
- Low-light image enhancement based on multi-branch residual and affine transformation Huang Renjing, Cui Hu, Chen Qingmei, et al. (3786)
- Skeleton recognition model based on enhanced graph convolution Lan Hong, He Fan, Zhang Pufen (3791)
- Target tracking algorithm in Siamese network based on bimodal input Liu Zilong, Wang Chen (3796)
- Pseudo-3D residual network based on minimum intra-class variance Xie Chaoyu, Qin Yu, Zhang Kaifang, et al. (3801)
- Research on improvement of lightweight image classification neural network Wang Guangyu, Zhang Haitao (3808)
- Image super-resolution based on spatial feature transformation and back projection progressive reconstruction network Qin Yu, Xie Chaoyu, Wang Xiaoming, et al. (3814)
- Road extraction from satellite image based on gated convolutional residual network Xiao Changcheng, Wu Xi (3820)
- Data relation proxy loss for fine-grained image Gou Guanglei, Yang Yu, Zhu Dongxu (3826)
- Action recognition based on Hough transform of skeletal features Zhou Tongchi, Zhang Hao, Qu Boyang, et al. (3831)
- Extraction of saliency region based on fusion of multilayer convolution features Yang Jinkai, Wang Guozhong (3835)