计 算 机 技 术 与 发 展

Jisuanji Jishu yu Fazhan

2024 年第 3 期（总第 34 卷第 323 期）　　出版日期 2024 年 3 月 10 日

目　　次

综　　述

多源域适应方法综述 …… 李　林　俞　璐　韩昌芝　乔平娟　（1）

藏文情感词典构建的现状分析 …… 才让东知　杨　杰　尼玛扎西　（9）

大数据与云计算

EMCA:一种新的多云存储中高效的多副本审计方案 …… 胡雨晴　金　瑜　（15）

基于能源大数据特征的数据评价方法研究及应用 ……

…… 刘文立　陈士翀　刘文思　宣东海　江丽娜　沈子奇　（22）

基于交互基函数的数据流聚类算法研究 …… 黄承宁　李　莉　姜丽莉　徐平平　（28）

灰狼算法优化 SVR 的 10kV 配网线损率预测研究 …… 杨正宇　沈志强　郑成源　（35）

媒　体　计　算

语义增强的多视立体视觉方法 …… 韩　燮　王若蓝　赵　融　（41）

面向方面级情感分析的双通道图卷积网络 …… 刘　洋　黎茂锋　黄　俊　陈立伟　（49）

基于改进群稀疏正则化的稀疏角度图像重建 ……

…… 魏志晴　郑文康　白艳萍　谭秀辉　程　蓉　胡红萍　王　鹏　（57）

软件技术与工程

基于改良蜂群算法的 Web 服务组合优化方法 …… 张志鹏　周井泉　（64）

总　编　辑：谭　华　　责任编辑：高　娟　周　凯　王　玲

编辑部主任：贺福明　　封面设计：周　兵

期刊基本参数：CN 61-1450/TP * 1991 * m * A4 * 220 * zh * ￥28.00 * 850 * 31 * 2024-3

故障树自动建树及分析软件的实现 …… 陶　军　聂　飞　邹俊逸　(70)
EASE-Grid 投影风云卫星产品地理信息写入方法 ……
…… 韩书新　安英玉　高　昂　于　敏　秦　铁　王志晓　(76)

移动与物联网络

移动边缘计算中基于贡献度激励的端池化解决方案 …… 阳　柳　章立群　林晓勇　(83)
基于改进蛇优化算法的 WSN 覆盖研究 …… 李　振　冯　锋　(89)

网络空间安全

基于零信任机制的工业互联网边界防护方案研究 …… 王奕钧　(96)
基于可追踪环签名的联盟链身份隐私保护方法 …… 任正伟　余易晋　(102)
基于 SM9 的 JWT 强身份认证方案 …… 罗娇燕　左黎明　陈艺琳　郝　恬　(110)
基于改进 AE-CM 模型的未知应用层协议识别 …… 马甜甜　洪　征　陈　乾　(118)

人工智能

基于改进麻雀搜索算法的冷链物流路径优化 ……
…… 马青宇　邵松帅　刘博旭　孙　哲　龚光富　孙知信　(125)
基于 PRAU-Net 的新冠肺炎 CT 图像分割研究 …… 曾庆鹏　崔　鹏　(133)
基于隐式反馈和加权用户偏好的推荐算法 …… 夏　翔　刘　姜　倪　枫　陆劲宇　(140)
基于 RoBERTa-Effg-Adv 的实体关系联合抽取方法 …… 姚飞杨　刘晓静　(147)
基于原子特性知识增强的分子毒性预测方法 …… 方舒言　刘　宇　侯阿龙　秦欢欢　刘　嵩　(155)
动态视音场景下问答模型研究 …… 段毛毛　连培榆　史海涛　(163)
急性缺血性脑卒中 CT 生成 MRI 算法——基于影像组学的边缘感知扩散 GAN ……
…… 张美美　秦品乐　柴　锐　曾建潮　翟双姣　(170)
基于 NLMS 和 Autoformer 的滚动轴承 RUL 预测 …… 刘康宁　徐遵义　李　晨　闫春相　(177)
煤矿工种知识图谱智能问答研究 …… 刘　鹏　程浩然　王　莹　魏　微　丁恩杰　(185)

新型计算应用系统

面向混合式教学的计算机实验管理平台设计与应用 …… 薄钧戈　齐　琪　吴　宁　房琛琛　(193)
多层星座网络仿真教研系统设计与实现 …… 刘子威　赵珊珊　(201)
基于改进 DenseNet 模型的滚动轴承故障诊断 …… 雷　伟　廖光忠　裴　浪　(207)
冬奥气象图形产品可视化模型研究 ……
…… 丰德恩　唐　卫　王慕华　郝江波　袁亚男　赵　瑞　王孝通　(214)

COMPUTER TECHNOLOGY AND DEVELOPMENT

Vol. 34 No. 3 March 2024

CONTENTS

A Review of Multi-source Domain Adaptation ····· *LI Lin*, *YU Lu*, *HAN Chang-zhi*, *et al* (1)

Status Analysis of Construction of Tibetan Emotional Dictionary ····· *TSHERING Dondrub*, *YANG Jie*, *NYIMA Trashi* (9)

EMCA: A New Efficient Multi-replica Auditing Scheme in Multi-cloud Storage ····· *HU Yu-qing*, *JIN Yu* (15)

Research and Application of Data Evaluation Methods Based on Energy Big Data Characterization ····· *LIU Wen-li*, *CHEN Shi-chong*, *LIU Wen-si*, *et al* (22)

Research on Data Stream Clustering Algorithm Based on Interactive Basis Function ····· *HUANG Cheng-ning*, *LI Li*, *JIANG Li-li*, *et al* (28)

Research on Line Loss Rate Prediction of 10kV Distribution Network Based on SVR Optimized by Gray Wolf Algorithm ····· *YANG Zheng-yu*, *SHEN Zhi-qiang*, *ZHENG Cheng-yuan* (35)

Semantic-enhanced Multi-view Stereo Vision Approach ····· *HAN Xie*, *WANG Ruo-lan*, *ZHAO Rong* (41)

Aspect-based Sentiment Analysis via Dual-channel Graph Convolutional Network ····· *LIU Yang*, *LI Mao-feng*, *HUANG Jun*, *et al* (49)

Sparse Angle Image Reconstruction Based on Improved Group-sparse Regularization ····· *WEI Zhi-qing*, *ZHENG Wen-kang*, *BAI Yan-ping*, *et al* (57)

Web Service Composition Optimization Method Based on Modified Artificial Bee Colony ····· *ZHANG Zhi-peng*, *ZHOU Jing-quan* (64)

Implementation of Automatic Tree Building and Analysis Software for Fault Trees ····· *TAO Jun*, *NIE Fei*, *ZOU Jun-yi* (70)

Geographic Information Writing Method of Fengyun Satellite Products Based on EASE-Grid Projection ····· *HAN Shu-xin*, *AN Ying-yu*, *GAO Ang*, *et al* (76)

A Solution of Terminal Pooling Based on Contribution Emulated in Mobile Edge Computing ····· *YANG Liu*, *ZHANG Li-qun*, *LIN Xiao-yong* (83)

Research on WSN Coverage Based on Improved Snake Optimizer Algorithm ····· *LI Zhen*, *FENG Feng* (89)
Research on Border Protection Scheme of Industrial Internet Based on Zero Trust Mechanism ····· *WANG Yi-jun* (96)
A Method of Identity Privacy Protection in Consortium Blockchain Based on Traceable Ring Signature ··· *REN Zheng-wei*, *YU Yi-jin* (102)
JWT Strong Identity Authentication Scheme Based on SM9 ····· *LUO Jiao-yan*, *ZUO Li-ming*, *CHEN Yi-lin*, *et al* (110)
Unknown Application Layer Protocol Recognition Method Based on Improved AE-CM ····· *MA Tian-tian*, *HONG Zheng*, *CHEN Qian* (118)
Optimization of Cold Chain Logistics Path Based on Improved Sparrow Search Algorithm ····· *MA Qing-yu*, *SHAO Song-shuai*, *LIU Bo-xu*, *et al* (125)
Research of COVID-19 CT Image Segmentation Based on PRAU-Net ····· *ZENG Qing-peng*, *CUI Peng* (133)
Recommendation Algorithms Based on Implicit Feedback and Weighted User Preferences ····· *XIA Xiang*, *LIU Jiang*, *NI Feng*, *et al* (140)
Entity and Relation Joint Extraction Method Based on RoBERTa-Effg-Adv ····· *YAO Fei-yang*, *LIU Xiao-jing* (147)
A Molecular Toxicity Prediction Method Based on Knowledge Enhancement of Atomic Properties ····· *FANG Shu-yan*, *LIU Yu*, *HOU A-long*, *et al* (155)
Research on Question and Answer Models in Dynamic Audio-visual Scenarios ····· *DUAN Mao-mao*, *LIAN Pei-yu*, *SHI Hai-tao* (163)
Acute Ischemic Stroke CT-to-MRI Conversion Algorithm—Radiomics-based Edge-aware DiffusionGAN ····· *ZHANG Mei-mei*, *QIN Pin-le*, *CHAI Rui*, *et al* (170)
RUL Prediction of Rolling Bearing Based on NLMS and Autoformer ····· *LIU Kang-ning*, *XU Zun-yi*, *LI Chen*, *et al* (177)
Research on Intelligent Question Answering Based on Knowledge Graph of Coalmine Occupation ····· *LIU Peng*, *CHENG Hao-ran*, *WANG Ying*, *et al* (185)
Design and Application of Computer Experimental Management Platform for Blended Teaching ····· *BO Jun-ge*, *QI Qi*, *WU Ning*, *et al* (193)
Design and Implementation of Multi-layer Constellation Network Simulation Teaching and Research System ··· *LIU Zi-wei*, *ZHAO Shan-shan* (201)
Fault Diagnosis of Rolling Bearing Based on Improved DenseNet Model ····· *LEI Wei*, *LIAO Guang-zhong*, *PEI Lang* (207)
Research on Visualization Model of Meteorological Graphic Products in Winter Olympic Games ····· *FENG De-en*, *TANG Wei*, *WANG Mu-hua*, *et al* (214)