



ISSN 1006-2475

CN 36-1137/TP

7

2018

Computer And Modernization

计算机与现代化

江西省计算机学会 江西省计算技术研究所 主办

中国科技核心期刊
中国科技论文统计源期刊

ISSN 1006-2475



万方数据

计算机与现代化

二〇一八年

第7期

目 次

数据库与数据挖掘

区域网络中异构数据库存储复制技术	谢宾铭,王晓东(1)
DOP:一种数据开放框架及其应用	莫城为,范冰冰(6)
基于属性优先关系的多用户 Skyline 查询处理算法	邵路伊,王沁雪,郭 帅(11)

算法设计与分析

基于增量学习的非平衡 SVM 分类方法	崔丽娜,郭虎升(20)
基于 APP 搜索系统的 PageRank 改进算法	李春生,刘小刚,焦海涛,张可佳(24)
基于卷积神经网络的敏感文件检测方法	林学峰,夏元轶,郭金龙,于晓文(28)
基于区域神经网络的 TFT-LCD 电路缺陷检测方法	何俊杰,肖 可,刘 畅,陈松岩(33)
基于改进 PSO 算法的加热系统分数阶控制	姜苏英(39)
基于开口度和扭转角的吊钩形变检测算法	吴良成,郭 玲(43)
未知环境中基于量子蚁群优化的移动机器人实时路径规划	张高林,张继宇,周 萌(49)

应用与开发

基于 BI-LSTM-CRF 模型的限定领域知识库问答系统	程树东,胡 鹰(53)
基于 CAN 总线的激光整平机控制系统	卜一晨,黄 欢,秦海鹏,金 鑫(58)
儿童教育游戏模式下眼动交互应用设计及验证	王 述,王 庆,陈 洪(62)
基于 BP 神经网络的气象云资源调度系统	杨立苑,胡佳军,李显凤,周雪莹,邹海燕(68)
欧拉视频增强技术在火焰弱信号检测中的应用	敖 宇,杨健晟(73)
基于 IUPF 的锂离子电池剩余使用寿命预测方法	李丽敏,温宗周,宋玉琴(77)
一种 LSTM-BP 多模型组合水文预报方法	冯 钧,潘 飞(82)
负载均衡技术在并行化符号执行中的应用	李 航,臧 浏,甘 露(86)
基于对数几率回归的函数级软件缺陷定位	周明泉,江国华(93)

图像处理

一种鲁棒的运动目标阴影去除及修复算法	张泽宏,徐贵力,徐 扬,程月华,王正盛(98)
基于卷积神经网络的交通路标识别	陈柏立,林 楠(103)

网络与通信

基于结构中心性的航路网络关键节点识别	蒋一森(108)
支持高效撤销的属性加密方案	张兴兰,李建楠(114)
配电安全交互网关报文处理机制	郭江涛,沈 佳,刘 昆,邹岳林(121)

CONTENTS

DATABASE AND DATA MINING

Storage Replication Technology of Heterogeneous Database in Regional Network	XIE Bin-ming, WANG Xiao-dong(1)
DOP: A Simple Open Data Framework and Its Application	MO Cheng-wei, FAN Bing-bing(6)
Algorithm for Multi-users Skyline Query Based on Priority of Attribute	SHAO Lu-yi, WANG Qin-xue, GUO Shuai(11)

DESIGN AND ANALYSIS OF ALGORITHM

Imbalanced SVM Classification Method Based on Incremental Learning	CUI Li-na, GUO Hu-sheng(20)
An Improved PageRank Algorithm Based on APP Search System	LI Chun-sheng, LIU Xiao-gang, JIAO Hai-tao, ZHANG Ke-jia(24)
Sensitive File Detection Method Based on CNN	LIN Xue-feng, XIA Yuan-yi, GUO Jin-long, YU Xiao-wen(28)
TFT-LCD Circuit Defects Detection Based on Faster R-CNN	HE Jun-jie, XIAO Ke, LIU Chang, CHEN Song-yan(33)
Fractional Order Control Based on Improved PSO Algorithm for Heating System	JIANG Su-ying(39)
A Detection Algorithm of Hook Deformation Based on Opening and Twisting Angle	WU Liang-cheng, GUO Ling(43)
Quantum Ant Colony Optimization Algorithm for Real-time Path Planning of Mobile Robot in Unknown Environment	ZHANG Gao-lin, ZHANG Ji-yu, ZHOU Meng(49)

APPLICATION AND DEVELOPMENT

Limited Domain Knowledge Question Answering System Based on BI-LSTM-CRF	CHENG Shu-dong, HU Ying(53)
A Control System for Laser Leveling Machines Based on CAN Bus	BU Yi-chen, HUANG Huan, QIN Hai-peng, JIN Xin(58)
Design and Verification of Children-oriented Educational Application Based on Eye Movement Interactive Technology	WANG Shu, WANG Qing, CHEN Hong(62)
Meteorological Cloud Resource Scheduling System Based on BP Neural Network	YANG Li-yuan, HU Jia-jun, LI Xian-feng, ZHOU Xue-ying, ZOU Hai-yan(68)
Application of Eulerian Video Magnification Technology in Flame Weak Signals Detection	AO Yu, YANG Jian-sheng(73)
Lithium Battery Remaining Useful Life Prediction Based on IUPF	LI Li-min, WEN Zong-zhou, SONG Yu-qin(77)
A Hydrologic Forecast Method Based on LSTM-BP	FENG Jun, PAN Fei(82)
Application of Load Balancing Technology in Parallel Symbol Execution	LI Hang, ZANG Lie, GAN Lu(86)
Logistic Regression-based Software Fault Localization in Function Level	ZHOU Ming-quan, JIANG Guo-hua(93)

IMAGE PROCESSING

A Robust Moving Target Shadow Removal and Repair Algorithm	ZHANG Ze-hong, XU Gui-li, XU Yang, CHENG Yue-hua, WANG Zheng-sheng(98)
Traffic Sign Recognition Based on Convolutional Neural Network	CHEN Bai-li, LIN Nan(103)

NETWORK AND COMMUNICATION

Key Node Identification of Navigation Network Based on Structural Centrality	JIANG Yi-sen(108)
Attribute-based Encryption Scheme with Efficient Revocation	ZHANG Xing-lan, LI Jian-nan(114)
Message Processing Mechanism for Power Distribution Security Interactive Gateway	GUO Jiang-tao, SHEN Jia, LIU Kun, ZOU Yue-lin(121)