

计算机工程与应用

Jisuanji Gongcheng yu Yingyong

第53卷 第8期 2017年4月15日

目次

·热点与综述·

分布式环境下卷积神经网络并行策略研究	张任其,李建华,范磊(1)
高能物理云平台中的弹性计算资源管理机制	程振京,李海波,黄秋兰,程耀东,陈刚(8)
粗糙数项级数及其粗糙收敛性质	唐玲玉,张贤勇,莫智文(15)
极大限制边连通网络的充分条件	张国珍(19)
基于反馈可信度的可信机会路由转发模型	吴军,莫伟伟,印新棋,白光伟(23)

·理论与研发·

两个论域上的覆盖粗糙模糊集模型	姚邦生,舒兰(29)
基于 PSO-BP 算法的地理本体概念语义相似度度量	韩学仁,王青山,郭勇,崔兴亚(32)
带有状态观测器的网络控制系统非脆弱 H_∞ 控制	张晓蔚,姜顺,潘丰(38)
总线型细胞阵列设计与空闲细胞选择方法	王涛,蔡金燕,孟亚峰(44)
利用外辐射源的 TDOA 和 FDOA 目标定位算法	赵勇胜,赵闯,赵拥军(50)

·大数据与云计算·

基于差分进化的 ELM 加权集成分类	海宇娇,刘青昆(57)
保邻域结构的拉普拉斯特征映射延拓	王伟文,方环,张传林(61)
分布式复杂事件流处理平台的研究	孔祥翱,廖湖声,王亦雄,高红雨,苏航(68)
基于行车位置数据挖掘的拼车方法研究	刘春,谭梦茜,邵雄凯(76)
基于聚类集成的微博话题发现方法	冯旭鹏,马震,谢波,刘利军,黄青松(81)

·网络、通信与安全·

基于 MBER 准则的变阶长自适应均衡器	张文秋,丁文锐,刘春辉(87)
一个改进的无证书代理签名方案	葛丽霞,李虢,何明星,李亚荣,刘晓剑(92)
基于多特征的 Android 恶意软件检测方法	程运安,汪奕祥(95)
后退锁位式 RFID 自适应多叉树防碰撞算法	李锋,南敬昌,李蕾,高明明(102)

快速检测 RFID 复制标签的算法研究..... 李娟娟,龚向阳(106)

•模式识别与人工智能•

基于自然语言的分拣机器人解析器技术研究..... 熊志恒,闵华松(113)

改进的 MEA 进行特征选择及 SVM 参数同步优化..... 丁 胜,张 进,李 波(120)

机器人逆运动学差分自适应混沌粒子群求解... 谢 宏,向启均,陈海滨,张小刚,杨 鹏,张爱林,李云峰(126)

嵌入列维变异的混合动态粒子群算法..... 毛琪波,余震虹,王相淳(132)

改进型蝙蝠算法在作业车间调度问题中的应用..... 张文鹏,王 兴(137)

一种优化的机器人室内场景定量分割识别方法..... 田 勇,王 欢,张云峰(141)

模块化思想在大规模本体匹配中的应用..... 陈 恒,李冠宇,陈鑫影(149)

级联 SVM 和分类器融合的人脸性别识别方法..... 李昆仑,张 忻(154)

•图形图像处理•

一种基于矩不变的深度获取计算方法..... 马正华,范文韬,黄海卫(159)

基于改进的稀疏重构算法的行人异常行为分析..... 汤春明,卢永伟(165)

BOLD 效应 fMRI 图像的自适应阈值小波去噪方法..... 王泉德,肖继来,谢 晟(170)

低帧率周期运动视频超分辨率重建方法..... 杨 靖,彭国华(174)

改进联合彩色和深度图像特征的人体行为识别..... 周鑫焱,甘胜江,孙连海,匡 胤(180)

基于灰度最值和方向纹理的概率滤波算法..... 陈家益,黄 楠,熊刚强,谢翠萍(186)

极端天气条件下低质图像增强算法研究..... 刘振宇,江海蓉,徐鹤文(193)

基于检测器优化选择的短时交通流预测..... 罗向龙,张生瑞,牛力瑶(199)

水稻穗部籽粒参数快速无损获取方法研究..... 许 杰,周子力,潘大宇,王 成,罗 斌,宋 鹏(203)

基于颜色饱和度的快速图像去雾研究..... 刘万军,赵庆国(209)

森林病虫害监测中的无人机图像分割算法比较..... 费运巧,刘文萍,骆有庆,陆鹏飞(216)

基于灰度矩的脉搏图像亚像素特征点提取研究..... 张爱华,杨莉苹,林冬梅(224)

•工程与应用•

基于 MICAPS 风场信息的低空急流自动识别及绘制..... 路志英,刁长莹,卢焕珍,贾惠珍(230)

复杂风网井下循环风快速搜索算法..... 钟德云,王李管,毕 林,王晋淼(235)

汽车混流装配线的混合布谷鸟算法排序研究..... 余方平,刘 坚,马 灿(240)

煤岩界面识别和定位测量方法研究..... 刘俊利,王立锋,孔秀平(246)

分层特征模板筛选的维吾尔语韵律边界预测... 姑丽加玛丽·麦麦提艾力,艾斯卡尔·肉孜,艾斯卡尔·艾木都拉(250)

基于偏移量计算的在线 GPS 轨迹数据压缩..... 樊庆富,张 磊,刘磊军,鲍苏宁,房 晨(254)

NUMA 架构的龙芯 3A 板级设计及工程化技术研究..... 赵东阳,刘 瑞,孟英谦(260)

BP-LCD 方法及其在滚动轴承故障诊断中的应用..... 李曜洲,伍济钢,李学军(267)

Computer Engineering and Applications

Vol.53 No.8 15 Apr. 2017

Contents

Research on parallel strategy of convolution neural network in distributed environment.....	
.....ZHANG Renqi, LI Jianhua, FAN Lei(1)	
Elastic computing resource management mechanism for high-energy physics cloud platform.....	
.....CHENG Zhenjing, LI Haibo, HUANG Qiulan, CHENG Yaodong, CHEN Gang(8)	
Rough numerical series and their convergence properties.....	TANG Lingyu, ZHANG Xianyong, MO Zhiwen(15)
Sufficient conditions for networks to be maximally restricted edge-connected.....	ZHANG Guozhen(19)
Trusted opportunistic routing forwarding model based on feedback credibility.....	
.....WU Jun, MO Weiwei, YIN Xinqi, BAI Guangwei(23)	
Covering rough fuzzy set model over two universes.....	YAO Bangsheng, SHU Lan(29)
Geographic ontology concept semantic similarity measure model based on BP neural network optimized by PSO.....	
.....HAN Xueren, WANG Qingshan, GUO Yong, CUI Xingya(32)	
State observer-based non-fragile H_{∞} control for networked control system.....	ZHANG Xiaowei, JIANG Shun, PAN Feng(38)
Design of bus-based embryonic array and selection method for mounts of spare cells.....	
.....WANG Tao, CAI Jinyan, MENG Yafeng(44)	
TDOA and FDOA location algorithm using illuminators of opportunity.....	
.....ZHAO Yongsheng, ZHAO Chuang, ZHAO Yongjun(50)	
ELM weighting ensemble classification based on differential evolution.....	HAI Yujiao, LIU Qingkun(57)
Out-of-sample extension of Laplacian Eigenmaps preserving local structure.....	
.....WANG Weiwen, FANG Huan, ZHANG Chuanlin(61)	
Distributed complex event stream processing platform research.....	
.....KONG Xiangxuan, LIAO Husheng, WANG Yixiong, GAO Hongyu, SU Hang(68)	
Carpooling algorithm research based on location data mining.....	LIU Chun, TAN Mengxi, SHAO Xiongkai(76)
Microblog topic detection method based on clustering ensemble.....	
.....FENG Xupeng, MA Zhen, XIE Bo, LIU Lijun, HUANG Qingsong(81)	
Adaptive variable tap-length equalizers based on MBER criterion.....	ZHANG Wenqiu, DING Wenrui, LIU Chunhui(87)
Improved certificateless proxy signature scheme.....	GE Lixia, LI Xiao, HE Mingxing, LI Yarong, LIU Xiaojian(92)
Android malware detection method based on Naive Bayes algorithm with multiple characters.....	
.....CHENG Yun'an, WANG Yixiang(95)	
Regressive lock anti-collision algorithm based on adaptive multi-tree search.....	
.....LI Feng, NAN Jingchang, LI Lei, GAO Mingming(102)	
Fast cloned tags detection algorithm in large-scale RFID systems.....	LI Juanjuan, GONG Xiangyang(106)
Research on sorting robot parser based on natural language understanding.....	XIONG Zhiheng, MIN Huasong(113)
Improved MEA for feature selection and SVM parameters optimization.....	DING Sheng, ZHANG Jin, LI Bo(120)
Inverse kinematics solution algorithm of robot based on differential algorithm and adaptive chaotic particle swarm optimization.....	
.....XIE Hong, XIANG Qijun, CHEN Haibin, ZHANG Xiaogang, YANG Peng, ZHANG Ailin, LI Yunfeng(126)	

Hybrid PSO algorithm of dynamic topology with Levy mutation.....MAO Qibo, YU Zhenhong, WANG Xiangchun(132)

Application of improved bat algorithm to JSP.....ZHANG Wenpeng, WANG Xing(137)

Optimization method for indoor scene quantitative segmentation of robots.....

.....TIAN Yong, WANG Huan, ZHANG Yunfeng(141)

Modular thinking 's application in large scale ontology matching.....CHEN Heng, LI Guanyu, CHEN Xinying(149)

Hierarchy support vector machines and classifier fusion methods for face image gender recognition.....

.....LI Kunlun, ZHANG Xin(154)

Calculation method of depth acquisition based on moment-preserving...MA Zhenghua, FAN Wentao, HUANG Haiwei(159)

Pedestrian abnormal behavior analysis based on optimized sparse reconstruction algorithm.....

.....TANG Chunming, LU Yongwei(165)

Wavelet denoising algorithm with adaptive threshold for fMRI images based on BOLD effect.....

.....WANG Quande, XIAO Jilai, XIE Sheng(170)

Super resolution of periodic video with low frame rate.....YANG Jing, PENG Guohua(174)

Human action recognition through combined RGB and depth image feature.....

.....ZHOU Xinyi, GAN Shengjiang, SUN Lianhai, KUANG Yin(180)

Probability filtering algorithm based on maximum and minimum gray and directional texture.....

.....CHEN Jiayi, HUANG Nan, XIONG Gangqiang, XIE Cuiping(186)

Low-quality image enhancement algorithms in extreme weather conditions.....

.....LIU Zhenyu, JIANG Hairong, XU Hewen(193)

Short-term traffic flow prediction based on detector optimal selection.....

.....LUO Xianglong, ZHANG Shengrui, NIU Liyao(199)

Study on fast and nondestructive method of rice grain parameters acquisition of rice panicle.....

.....XU Jie, ZHOU Zili, PAN Dayu, WANG Cheng, LUO Bin, SONG Peng(203)

Fast image dehaze study based on color saturation.....LIU Wanjun, ZHAO Qingguo(209)

Comparison of algorithms for unmanned aerial vehicle image segmentation in monitoring forest diseases and insect pests...

.....FEI Yunqiao, LIU Wenping, LUO Youqing, LU Pengfei(216)

Research on sub-pixel feature point extraction of pulse image based on gray moment.....

.....ZHANG Aihua, YANG Liping, LIN Dongmei(224)

Automatic recognition and drawing of low-level jet based on wind field information of MICAPS.....

.....LU Zhiying, DIAO Changying, LU Huanzhen, JIA Huizhen(230)

Fast search algorithm of recirculating air in complex wind network.....

.....ZHONG Deyun, WANG Liguan, BI Lin, WANG Jinmiao(235)

Research of mixed-model automobile assembly sequencing based on hybrid cuckoo search algorithm.....

.....YU Fangping, LIU Jian, MA Can(240)

Research on coal-rock interface recognition and location measurement...LIU Junli, WANG Lifeng, KONG Xiuping(246)

Uyghur prosodic boundary prediction based on hierarchical feature template selection.....

.....Guljamal Mamateli, Askar rozi, Askar Hamdulla(250)

Online GPS trajectory data compression based on offset calculation.....

.....FAN Qingfu, ZHANG Lei, LIU Leijun, BAO Suning, FANG Chen(254)

Board level design and engineering implementation research of architecture of NUMA based on Loongson 3A.....

.....ZHAO Dongyang, LIU Rui, MENG Yingqian(260)

BP-LCD method applied to fault diagnosis of rolling bearing.....LI Yaozhou, WU Jigang, LI Xuejun(267)