

- ❖ 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
- ❖ 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
- ❖ 《中国工程技术电子信息网》来源期刊
- ❖ 《日本科学技术振兴机构数据库》(JST)来源期刊
- ❖ 美国《史蒂芬斯数据库》(EBSCOhost)全文来源期刊
- ❖ 美国《剑桥科学文摘(自然科学)》(CSA(NS))来源期刊
- ❖ 波兰《哥白尼索引》(IC)来源期刊
- ❖ 中国科学引文数据库来源期刊
- ❖ 《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
- ❖ 台湾《中文电子期刊服务(CEPS)资料库》全文收录期刊
- ❖ 《电子科技文献数据库》来源期刊

计算机应用研究

Jisuanji Yingyong Yanjiu

第31卷 第5期 2014年5月

目 次

综述评论

支持向量机理论及算法研究综述	汪海燕,黎建辉,杨风雷(1281)
不平衡数据的集成分类算法综述	李勇,刘战东,张海军(1287)
语义 Web 服务自动组合定义、方法及验证调查	王向辉,冯志勇(1292)
无线传感器网络连通恢复综述	吴春辉,陈洪生(1302)

算法研究探讨

基于云模型间贴近度的相似度量法	金璐,覃思义(1308)
多传感器自适应容积卡尔曼滤波融合算法	敖志刚,唐长春,付成群,郭杰,叶春雷(1312)
基于 PLAZA 的移动对象轨迹实时化简方法	王欣然,杨智应(1316)
基于双层贝叶斯网增强学习机制的网络认知算法	褚灵伟,李捷,董晨,陆肖元(1320)
基于克隆布谷鸟算法的资源均衡优化	宋玉坚,叶春明,黄佐钘(1324)
基于粗糙集的蛋白质结构分类属性筛选	敖培,王川,张纪(1328)
一种改进的多目标混合差分进化算法	王筱珍,俞国燕(1332)
基于交叉突变算子的人工蜂群算法及其应用	邱剑锋,谢娟,汪继文(1336)
用于大数据分类的 KNN 算法研究	耿丽娟,李星毅(1342)
AUV 协同设计平台中多任务流调度算法研究	许真珍,赵小薇,徐秀娟,胡志强,陈鑫(1345)
光滑拉格朗日神经网络解决非光滑最优化问题	喻昕,于琰,谢缅(1349)
面向柔性工艺的作业车间调度问题混合遗传算法	马雪丽,曹德弼,刘晓冰(1353)
基于改进源信号数目估计算法的欠定盲分离	薄祥雷,何怡刚,尹柏强,方葛丰,樊晓腾(1358)
一种基于同态标签的动态云存储数据完整性验证方法	胡德敏,余星(1362)
基于实数值链接分析的 ESSC 融合算法	王丽娟,郝志峰,蔡瑞初,温雯(1366)
基于分层动态时间弯曲的序列相似性度量方法研究	吴学雁,莫赞(1370)
限定初始状态非线性取代积分滑模算法的研究	杨兴明,许东昌(1374)
基于凸多面体方法的时滞和连续系统稳定性分析	吴海霞,冯伟,邹晓兵(1378)
基于隐朴素贝叶斯模型的社会关系推荐	伍杰华,朱岸青,蔡雪莲,张小兰(1381)
基于 Copula 函数的交通网络行程时间可靠度计算方法	崔毓伟,袁鹏程,倪安宁,隽志才(1385)
基于 Hadoop 的时态信息存储与时态关系演算问题研究	左亚尧,封朝永,陈磊(1390)
校车路径问题的约束检测算法	党兰学,侯彦娥,孔云峰(1396)
一种基于乘客出行轨迹的公交断面客流估算方法	胡继华,邓俊,黄泽(1399)
一维 Logistic 映射混沌伪随机序列统计特性研究	李彩虹,李贻斌,赵磊,张艳华,张新慧(1403)
两种 GPU 上改进的最短路径算法	刘欣,王非(1407)
一种基于优先级表的实时调度方法	李毅,武君胜,樊晨(1410)

系统应用开发

基于集对分析与 NSGA-II 的生产作业多目标优化	吴乔,罗键,林金有(1414)
材料供应短缺情况下 Job-Shop 预测—反应式调度	李多,孙树栋,肖世昌(1418)
基于双目视觉动态跟踪的机器人标定	应再恩,李正洋,平雪良,蒋毅,刘开明(1424)

基于 GPU 的不确定数据流窗口连接运算	江 虹,钱江波,陈叶芳(1428)
基于改进交叉熵算法的伺服电机参数优化设计	李郝林,郭德宝,姜 晨,迟玉伦(1433)
基于修正熵权算法的信息披露质量评价	任政亮,徐 飞(1437)
基于滑动窗口的定性趋势分析方法及应用	高 东,马 听,许 欣,张贝克(1441)

软件技术研究

支持多属性决策的嵌入式系统软硬件划分	谢晓娜,朱清新(1445)
基于差分进化算法的组合测试用例集生成	郭书杰,黄 明,梁 旭,焦 璇(1449)
基于状态约简的顺序图和状态图一致性检测	钱 成,燕雪峰,周 勇,徐海生(1452)
在数据流数据库中集成聚类算法研究与实现	张 晶,张 阳(1456)
一种基于向量空间模型的模糊本体映射方法	张凌宇,陈淑鑫,张光姐,吕洪柱(1459)

信息安全技术

具有角色特性的 UCON 属性管理研究	蔡伟鸿,王高举,陈华华(1463)
基于模糊集合的构件资源信任评估模型研究	汪永好,曾广平(1467)
大数据动态安全 SAT 双向防御模型的研究	罗恩韬,胡志刚,杨 杰(1470)
WSN 中一种基于扩展卡尔曼滤波器的虚假数据注入检测算法	熊 伟(1475)
基于分段线性混沌映射的算术编码与加密	王小龙,赵庶旭(1481)
基于 PSO-BF 优化算法的关系数据库水印算法	毛 力,樊养余,王慧琴,王 可(1484)
一种用于云存储的可撤销的属性加密方案	潘 宁,朱智强,孙 磊,赵志远(1488)
基于嵌入式马尔可夫链的网络防火墙性能建模与分析	马永红,高 洁(1491)
云环境下用户隐私属性及其分类研究	季一木,匡子卓,康家邦,孙延鹏,潘俏羽(1495)
一种容错的传感器网络数据融合隐私保护算法	王涛春,罗永龙,左开中(1499)
云计算中动态完整性传递模型研究	姜 路,鹤荣育(1503)
基于身份认证加密的私钥共享方案及其应用	封化民,孙轶茹,孙 莹(1507)
一种基于 BioHashing 和洗牌算法的可撤销密钥绑定方案	郭 静,徐江峰(1511)

网络与通信技术

一种多接口多信道 VANET 动态信道分配算法研究	张 民,李德敏,金 康(1516)
基于全网能量均衡的 WirelessHART 图路由算法	张 盛,鄢 傲,向忠胜,张国勇,马天鸣(1520)
基于无线传感网的分布式协作调制识别算法	汪 伟,张效义,胡贊鹏(1524)
基于反思机制的 WSNs 节点信任演化模型	李紫川,沈士根,曹奇英(1528)
基于 POMDP 的负载均衡贪婪转发策略	温 卫,张衡阳(1532)
基于 Jelger 算法的多因素网关选择算法	刘 鹏,周又玲,蔡蛟洋(1536)
面向物联网的一种自适应实时数据分发机制	罗世亮,任 斌,程良伦(1539)
基于干扰对齐的高铁无线宽带接入方案	安永丽,肖 扬,王 东,纪占林(1543)
ACE 中设计模式在分布式网络服务中的应用研究	刘益志(1548)
基于 EEMD 和 ICA 的单通道列车信号盲分离	谷千伟,金炜东,余志斌(1551)
Ad hoc 网络基于平面区域划分的多径路由协议	董 萍,钱焕延,魏晓飞,兰少华(1554)

图形图像技术

人体姿势估计中随机森林训练算法的并行化	程 光,王贵锦,何 礼,林行刚(1558)
参数化的肖像漫画生成算法	苏廷辉,李 帅,湛永松(1562)
基于数字图像技术的卵石模糊聚类	宋晓龙,白玉川(1566)
基于二值随机森林的目标跟踪算法	张立朝,毕笃彦,查宇飞,黄宏图,孙 超(1571)
交互式多模型算法的 MT-R 机器人视觉跟踪	弋英民,黄 莹(1574)
基于 CUDA 的数字化放射图像重建算法	朱 疾,常晋义(1577)
基于贝叶斯理论快速 ERT 图像重建算法	刘琪芳,韩 炜,张锡祥(1581)
基于 12 个方向的方向加权滤波法去除随机值脉冲噪声	陈明轩,周亚丽,张奇志(1584)
基于 BEMD 和位平面分解的彩色图像水印算法	王小伟,赖惠成,龚金辉,张 慧(1588)
TVBPS:一种基于 Parallel Sets 的具有度量属性的多变元时态数据可视化方法	孙宁伟,刘海峰,赵 瑜,刘 勇,王 璐,肖卫东(1591)
基于特征筛选的码本区分性增强方法	徐 涛,庹红娅,方 正,刘 力,敬忠良(1597)

信息集萃

下期要目	(1466)
------	--------

期刊基本参数:CN51-1196/TP * 1984 * m * A4 * 320 * zh * P * ¥35.00 * 3840 * 77 * 2014-05 * n

本期责任编辑:何 俐,黄 莉

Application Research of Computers

Vol. 31 No. 5 May 2014

Contents

Survey

Overview of support vector machine analysis and algorithm	WANG Hai-yan, LI Jian-hui, YANG Feng-lei(1281)
Review on ensemble algorithms for imbalanced data classification	LI Yong, LIU Zhan-dong, ZHANG Hai-jun(1287)
Survey on definition, methods and verification of semantic Web service automatic composition	WANG Xiang-hui, FENG Zhi-yong(1292)
Connectivity restoration review for wireless sensor networks	WU Chun-hui, CHEN Hong-sheng(1302)

Algorithm Research & Explorer

Similarity measurement between cloud models based on close degree	JIN Lu, QIN Si-yi(1308)
Multi-sensor adaptive cubature Kalman filter data fusion algorithm	AO Zhi-gang, TANG Chang-chun, FU Cheng-qun, et al. (1312)
Method of real-time trajectory simplification of moving object based on PLAZA	WANG Xin-ran, YANG Zhi-ying(1316)
Network cognitive algorithm based on double-layer Bayesian network enhanced learning	CHU Ling-wei, LI Jie, DONG Chen, et al. (1320)
Resource leveling optimization based on clonal cuckoo search algorithm	SONG Yu-jian, YE Chun-ming, HUANG Zuo-xing(1324)
Selection of protein structure classification characteristics based on rough set	AO Pei, WANG Chuan, ZHANG Ji(1328)
Improved multi-objective hybrid differential evolution algorithm	WANG Xiao-zhen, YU Guo-yan(1332)
Improved artificial bee colony based on intersect mutation operator and its application	QIU Jian-feng, XIE Juan, WANG Ji-wen(1336)
Improvements of KNN algorithm for big data classification	GENG Li-juan, LI Xing-yi(1342)
Research on multiple task flows scheduling algorithm in collaborative design platform for AUV	XU Zhen-zhen, ZHAO Xiao-wei, XU Xiu-juan, et al. (1345)
Smoothing Lagrange neural network for constrained nonsmooth optimization problems	YU Xin, YU Yan, XIE Mian(1349)
Hybrid generic algorithm solving flexible process Job-Shop scheduling problem	MA Xue-li, CAO De-bi, LIU Xiao-bing(1353)
Underdetermined BSS based on an improved estimate algorithm for source signal's number	BO Xiang-lei, HE Yi-gang, Yin Bai-qiang, et al. (1358)
Dynamic cloud storage data integrity verifying method based on homomorphic tags	HU De-min, YU Xing(1362)
Enhanced soft subspace clustering ensemble based on real valued link analysis	WANG Li-juan, HAO Zhi-feng, CAI Rui-chu, et al. (1366)
Hierarchical dynamic time warping method for evaluating time series similarity	WU Xue-yan, MO Zan(1370)
Research of nonlinear replacement integral sliding mode algorithm at limited initial state	YANG Xing-ming, XU Dong-chang(1374)
Stability analysis of systems with two additive time-varying delay components via convex polyhedron method	WU Hai-xia, FENG Wei, ZOU Xiao-bing(1378)
Hidden naïve Bayesian model for social relation recommendation	WU Jie-hua, ZHU An-qing, CAI Xue-lian, et al. (1381)
Travel time reliability estimating methodology in transportation networks based on Copula function	CUI Yu-wei, YUAN Peng-cheng, NI An-ning, et al. (1385)
Research on problem of temporal information storage and temporal relational calculus based on Hadoop	ZUO Ya-yao, FENG Chao-yong, CHEN Lei(1390)
Constraints detection method for school bus routing problem	DANG Lan-xue, HOU Yan-e, KONG Yun-feng(1396)
Travel path based method for estimating public transit section flow	HU Ji-hua, DENG Jun, HUANG Ze(1399)
Research on statistical characteristics of chaotic pseudorandom sequence for one-dimensional Logistic map	LI Cai-hong, LI Yi-bin, ZHAO Lei, et al. (1403)
Two improved shortest path algorithms on GPU	LIU Xin, WANG Fei(1407)
Real-time scheduling algorithm based on priority table	LI Yi, WU Jun-sheng, FAN Chen(1410)

System Development & Application

Production job multi-objective scheduling optimization based on set pair analysis and NSGA-II	WU Qiao, LUO Jian, LIN Jin-you(1414)
Predictive-reactive scheduling for Job-Shop with material shortage	LI Duo, SUN Shu-dong, XIAO Shi-chang(1418)
Robot calibration based on binocular vision dynamic tracking	YING Zai-en, LI Zheng-yang, PING Xue-liang, et al. (1424)
GPU based window joins over uncertain data streams	JIANG Hong, QIAN Jiang-bo, CHEN Ye-fang(1428)
Optimal of servo motor parameters using improved cross entropy method	LI Hao-lin, GUO De-bao, JIANG Chen, et al. (1433)

Evaluation of quality of information disclosure based on amended entropy weight algorithms	REN Zheng-liang, XU Fei (1437)
Method and application of qualitative trend analysis with sliding window	GAO Dong, MA Xin, XU Xin, et al. (1441)

Software Technology Research

Hardware-software partitioning of embedded systems using MCDM method	XIE Xiao-na, ZHU Qing-xin (1445)
Generate combination test cases with differential evolution algorithm	GUO Shu-jie, HUANG Ming, LIANG Xu, et al. (1449)
Model checking consistency of sequence diagram and state machine based on state reduction	QIAN Cheng, YAN Xue-feng, ZHOU Yong, et al. (1452)
Programming of micro-clusters algorithm in data stream management system	ZHANG Jing, ZHANG Yang (1456)
Method of fuzzy ontology mapping based on vector space model	ZHANG Ling-yu, CHEN Shu-xin, ZHANG Guang-da, et al. (1459)

Technology of Information Security

Research of attributes management of UCON with role properties	CAI Wei-hong, WANG Gao-ju, CHEN Hua-hua (1463)
Research on trust evaluation model for component assets based on fuzzy sets	WANG Yong-hao, ZENG Guang-ping (1467)
Research on bi-directional defense SAT model of big data dynamic safety	LUO En-tao, HU Zhi-gang, YANG Jie (1470)
Detection algorithm of false injected data based on extended Kalman filter in wireless sensor networks	XIONG Wei (1475)
Arithmetic coding and encryption based on piecewise linear chaotic maps	WANG Xiao-long, ZHAO Shu-xu (1481)
Relational database watermarking algorithm based on PSO-BF	MAO Li, FAN Yang-yu, WANG Hui-qin, et al. (1484)
Ciphertext policy attribute based encryption scheme with revocation for cloud storage	PAN Ning, ZHU Zhi-qiang, SUN Lei, et al. (1488)
Performance modeling and analysis of network firewall based on embedded Markov chain	MA Yong-hong, GAO Jie (1491)
Research on privacy attributions and classification in cloud computing	JI Yi-mu, KUANG Zi-zhou, KANG Jia-bang, et al. (1495)
Fault-tolerant and privacy-preserving data aggregation algorithm in sensor networks	WANG Tao-chun, LUO Yong-long, ZUO Kai-zhong (1499)
Research of dynamic integrity-transmit model in cloud	JIANG Lu, HE Rong-yu (1503)
Authenticated identity-based private key sharing scheme and its application	FENG Hua-min, SUN Yi-ru, SUN Ying (1507)
Cancellable key banding scheme based on BioHashing and shuffling algorithm	GUO Jing, XU Jiang-feng (1511)

Technology of Network & Communication

Research of dynamic channel allocation algorithm for multi-radio multi-channel VANET	ZHANG Min, LI De-min, JIN Kang (1516)
Energy aware graph routing algorithm for WirelessHART	ZHANG Sheng, YAN Ao, XIANG Zhong-sheng, et al. (1520)
Distributed cooperative modulation recognition based on wireless sensor networks	WANG Wei, ZHANG Xiao-yi, HU Yun-peng (1524)
Evolutionary trust model of WSNs nodes based on review mechanism	LI Zi-chuan, SHEN Shi-gen, CAO Qi-ying (1528)
Load balancing greedy forwarding strategy based on POMDP	WEN Wei, ZHANG Heng-yang (1532)
Multi-factor gateway selection algorithm based on Jelger algorithm	LIU Peng, ZHOU You-ling, CAI Jiao-yang (1536)
Adaptive real-time data distribution mechanism for Internet of things	LUO Shi-liang, REN Bin, CHENG Liang-lun (1539)
Wireless broadband accessing scheme in high-speed railway based on interference alignment	AN Yong-li, XIAO Yang, WANG Dong, et al. (1543)
Research on application of design patterns of ACE in distributed network services	LIU Yi-zhi (1548)
Blind source separation of single-channel train signal based on EEMD and ICA	GU Qian-wei, JIN Wei-dong, YU Zhi-bin (1551)
Zoning-based multipath geographic routing protocol for Ad hoc networks	DONG Ping, QIAN Huan-yan, WEI Xiao-fei, et al. (1554)

Technology of Graphic & Image

Parallelization for randomized forests used in human pose estimation	CHENG Guang, WANG Gui-jin, HE Li, et al. (1558)
Generation algorithm of parameterized caricature	SU Yan-hui, LI Shuai, ZHAN Yong-song (1562)
Pebbles fuzzy clustering based on digital image technology	SONG Xiao-long, BAI Yu-chuan (1566)
Target tracking based on binary random forest	ZHANG Li-chao, BI Du-yan, CHA Yu-fei, et al. (1571)
Visual tracing algorithm based on interacting multiple model for MT-R robot	YI Ying-min, HUANG Ying (1574)
Digital reconstruction radiograph rendering algorithm based on CUDA	ZHU Shi, CHANG Jin-yi (1577)
Fast image reconstruction algorithm based on Bayesian estimation theory for electrical resistance tomography	LIU Qi-fang, HAN Yan, ZHANG Xi-xiang (1581)
Directional weighted filter with 12 directions to remove random valued impulse noise	CHEN Ming-xuan, ZHOU Ya-li, ZHANG Qi-zhi (1584)
Watermarking algorithm for color image based on BEMD and bit plane decomposition	WANG Xiao-wei, LAI Hui-cheng, GONG Jin-hui, et al. (1588)
TVBPS: time-varying multivariate data visualization method based on Parallel Sets	SUN Ning-wei, LIU Hai-feng, ZHAO Yu, et al. (1591)
Improving discriminability of dictionary by feature selecting	XU Tao, TUO Hong-ya, FANG Zheng, et al. (1597)

Information

Important Contents of Next Issue	(1466)
--	--------