

国家期刊奖获奖期刊
中国期刊方阵“双奖”期刊
中文核心期刊
中国科技核心期刊
中国计算机学会会刊
中国科技论文统计源期刊
中国科学引文数据库刊源期刊
中国学术期刊综合评价数据库统计源期刊
中国期刊网、中国学术期刊(光盘版)收录期刊

中文科技期刊数据库收录期刊
英国《科学文摘》收录期刊
俄罗斯《文摘杂志》收录期刊
《日本科学技术振兴机构数据库》收录期刊
美国《剑桥科学文摘》收录期刊
波兰《哥白尼索引》收录期刊
德国《数学文摘》收录期刊
CEPS 中文电子期刊服务全文收录期刊

计算机应用

(Jisuanji Yingyong)

第31卷 第2期 2011年2月

目 次

网络与通信

P2P 节点智能选择机制的研究与实现	陈兴蜀, 林大云, 王文贤(293)
基于熵权系数法的无线传感器网络自适应 QoS 路由算法	石为人, 严明蒙, 黄河(298)
基于认知无线电的 QoS 路由算法	韩庆文, 尚淑敏, 王韬, 黄宓(301)
BitTorrent 流量控制方案	唐红, 张云龙(304)
对抗共谋及节点行为动态性的 P2P 信任模型	陈作汉, 任旭鹏, 卢鹏丽(308)
TD-SCDMA 集群系统中的联合功率控制	周围, 舒鹏(313)
非视距传播环境下的 AOA 定位跟踪算法	毛永毅, 张颖(317)
基于非液体流模型的可用带宽测量精度	赵卫虎, 孟相如, 张亚普, 麻海圆(320)
无线传感器网络改进的 LEACH-ID 算法	施叶玲, 陈彬兵(324)
MANET 中有利于信道重用的按需信道分配和路由协议	彭立阳, 周继鹏(328)
蚁群优化算法在 Ad Hoc 网络路由中的应用	周少琼, 徐祎, 姜丽, 王锐(332)
蚁群优化和能量管理的 ZigBee 网络路由	彭友, 杨恢先, 满莎(335)
基于混沌粒子群算法的无线传感器网络覆盖优化	刘维亭, 范洲远(338)

图形图像技术

新的单目立体视觉的视差图的获得方法	徐姝姝, 王元庆, 张兆杨(341)
多视觉环境下联合多约束的三维目标体重建	陈宁, 李秀秀, 郑江滨(344)
基于拓扑层次图的碰撞检测算法	王海玲, 印桂生, 陈怀友, 张菁(347)
面向服装结构设计的服装穿戴模拟系统	毛刚, 怀彦, 周刚(351)
基于图像分块的多尺度 Harris 角点检测方法	张海燕, 李元媛, 储震昀(356)
基于粒子群的关键帧提取算法	张建明, 蒋兴杰, 李广翠, 姜靓(358)
新的彩色图像分层修复方法	周姗姗, 赵知劲, 叶学义(362)
基于混洗蛙跳和粒子群优化算法的块自增纹理合成	张尤赛, 高孟琦(366)
基于梯度修正和区域融合的分水岭分割算法	张建明, 张菊, 王娟(369)
基于分裂式 K 均值聚类的图像分割方法	张健, 宋刚(372)
利用邻域差异性信息的 FCM 改进算法	林亚忠, 郝刚, 顾金库(375)
基于分层切片原理的三维雕刻算法	王正友, 黄林林, 张国贤(379)
改进的 LIP 偏微分方程图像去噪方法	郭茂银, 田有先(383)
基于邻域 Mean-Shift 的彩色图像滤波算法	何希平(386)
基于噪声检测的自适应中值滤波算法	刘茗(390)
H.264/AVC 快速帧内预测模式选择新算法	苏奇, 张发存(393)

模式识别

基于二叉树和 AdaBoost 算法的纸币号码识别	潘虎, 陈斌, 李全文(396)
基于二阶模糊聚类算法的雷达目标距离像识别	彭翔, 周代英(399)
基于混沌量子遗传改进的模糊 C 均值聚类算法	路彬彬, 贾振红, 何迪, 杨杰, 庞韶宁(402)
一种有效的行为识别视频特征	李英杰, 尹怡欣, 邓飞(406)
基于动态特征的突发暴力事件辨识算法	蒲静, 傅饶, 胡栋, 卢璇(410)
基于香蕉雷达回波图像的特征提取与识别	孟红飞, 牛建强, 杨瑞瑞, 段世忠(413)

改进的半监督聚类在 MEG 脑机接口中的应用	周丽娜, 吕萌(416)
融合 2DPCA 和模糊 2DLDA 的人脸识别	赵冬娟, 梁久桢(420)
基于小波分解和 K2DPCA-2DLDA 的手背静脉识别	吕岑, 程诚, 赵东霞(423)
基于机器视觉的开心果闭壳与开壳识别	郭晓伟(426)

数据库与数据挖掘

基于 MPI 的并行 PSO 混合 K 均值聚类算法	吕奕清, 林锦贤(428)
基于密度的改进 K 均值算法及实现	傅德胜, 周辰(432)
Apriori 算法低频规则的有效性及实现	张春生, 庄丽艳, 李艳(435)
基于 FP-tree 的快速构建算法	陈治平, 谭义红, 李学勇, 栾悉道(438)
基于 co-occurrence 相似度的聚类集成方法	凌光, 王明春, 冯嘉毅(441)
基于量子遗传算法的 XML 聚类方法	蒋勇, 谭怀亮, 李光文(446)
流数据上的频繁项挖掘算法	屠莉, 陈峻(450)
基于捕食逃逸 PSO 的贝叶斯网络分类器	孔宇彦, 姚金涛, 李强, 祝胜林, 张明武(454)
集成 Spring 和 Aglets 的远程数据库访问技术	黄大荣, 黄惠敏(458)
计算资源共享平台中非集中式的元数据管理	蒋炎华(462)

人工智能

基于 FPAF 的模糊自整定 PID 控制器设计	王彦, 刘宏立, 王超(466)
变风量空调系统末端变论域模糊控制	王成立, 卢建刚(470)
基于动态测点选择的温度状态识别	朱春鹏, 郭其一(473)
时变时滞非仿射大系统的分散自适应控制	周树杰, 张天平(478)
连续搅拌反应釜过程的闭环增益成形 PID 控制器设计	李述清, 张胜修, 张煜东, 胡波(483)
基于自适应 Tent 混沌搜索的粒子群优化算法	黄美灵, 赵之杰, 浦立娜, 吴非, 赵美玲, 陈浩, 陈明哲(485)
基于 B 样条隶属函数的模糊推理系统	李静, 田卫东(490)
概念层次中基于粗糙集的优化可信规则获取	梁德翠, 胡培(493)
基于捕食搜索策略遗传算法的 SVM 参数优化方法	王萍萍, 毛志亮, 陈进东, 潘丰(498)
基于动量粒子群的混合核 SVM 参数优化方法	王佳, 徐蔚鸿(501)

信息安全

KATAN32 相关功耗分析及其实现	张雷, 谷大武, 郭筝, 赵建杰(504)
基于多接收者签密算法的门限密钥更新协议	柏骏, 张串绒, 崔晓臣(507)
基于 USB-Key 的强口令认证方案设计与分析	于江, 苏锦海, 张永福(511)
倒插入分段哈希算法	唐铭, 史长琼, 周恺卿, 张大方(514)
基于非均匀 B 样条曲线的加密算法	吴升, 郭新宇, 肖伯祥, 陆声链, 温维亮(517)
基于提升小波与 DCT 的自适应音频水印算法	陈新龙, 李晚艳, 胡国庆, 沈嘉皓(520)
MIS 中基于部门和角色的细粒度访问控制模型	严骏, 苏正炼, 凌海风, 朱亮, 张蕉蕉(523)
Windows 下基于文件特征的数据恢复算法	胡敏, 杨吉云, 姜维(527)

先进计算与信号处理

网格作业完工时间与作业分割粒度的关系	李荣胜, 赵文峰, 徐惠民(530)
基于 MA 型分布式算法的高阶 FIR 滤波器设计及其 FPGA 实现	李飞, 曾以成, 安超群, 余云霞(533)
利用直接数据域的双基机载雷达地面动目标检测方法	何飞, 蒋冬初(537)
基于 FPGA 的 F^*_∞ 域椭圆曲线点乘的快速实现	魏东梅, 杨涛(540)
基于小波分析的分数阶系统辨识信号降噪的变尺度阈值方法	朱呈祥, 邹云(543)
线谱频率及差分线谱频率参数相关性分析	韩笑蕾, 赵晓群, 方腾龙, 贾晓光(548)
基于行列式和稀疏性约束的 NMF 的欠定盲分离方法	卢宏, 赵知劲, 杨小牛(553)
新息模型的独立分量分析方法	舒朗, 舒勤, 苏静(556)

典型应用

基于 Android 手机的远程访问和控制系统	耿东久, 索岳, 陈渝, 文军, 吕勇强(559)
遗留系统并行架构的设计与实现	罗丹, 周波(562)
总线式数控系统中 PCI 接口控制器的 FPGA 实现与应用	顾超, 宋宝, 唐小琦(565)
基于有向层次图的 Web 服务自动组合方法	冯兴杰, 王辉, 许亚娟(568)
基于动态 AOP 的构件交互行为监测器	万灿军, 李长云(572)
基于 Web 服务的企业统一认证与授权系统	呼和, 张钦, 陈国青, 杨旸(577)
基于优化的电势理论规划三维飞行路径	刘丽峰, 张树清(581)
基于支持向量机的中国地鼠分类特征基因选取	杨俊丽, 刘田福(584)

《计算机应用》2011 年选题方向和重点组稿内容	(477)
本刊最新引用指标(2010 年版)	(576)
征订启事	(586)

期刊基本参数:CN 51-1307/TP * 1981 * m * A4 * 294 * zh * P * ¥28.00 * 5500 * 83 * 2011-02 * n

本期责任编辑:夏朝晖

Journal of Computer Applications

Vol. 31 No. 2 Feb. 2011

Contents

Network and communications

- Research and implementation of intelligent selection mechanism in P2P CHEN Xing-shu, LIN Da-yun, WANG Wen-xian (293)
Entropy-based adaptive QoS routing for wireless sensor networks SHI Wei-ren, YAN Ming-meng, HUANG He (298)
QoS routing algorithm research based on cognitive radio HAN Qing-wen, SHANG Shu-min, WANG Tao, HUANG Mi (301)
Scheme of BitTorrent traffic control TANG Hong, ZHANG Yun-long (304)
P2P trust model for resisting collusion and dynamic behavior of node CHEN Zuo-han, REN Xu-peng, LU Peng-li (308)
Joint power control for trunking communication system in TD-SCDMA network ZHOU Wei, SHU Peng (313)
AOA location and tracking algorithm in non-line-of-sight propagation environment MAO Yong-yi, ZHANG Ying (317)
Available bandwidth measurement accuracy based on non-fluid model ZHAO Wei-hu, MENG Xiang-ru, ZHANG Ya-pu, MA Hai-yuan (320)
Improved LEACH-ID algorithm for wireless sensor networks SHI Ye-ling, CHEN Bin-bing (324)
Channel assignment scheme and routing protocol with channel reuse in multi-channel mobile Ad Hoc network PENG Li-ying, ZHOU Ji-peng (328)
Ant colony optimization applied in Ad Hoc network routing ZHOU Shao-qiong, XU Yi, JIANG Li, WANG Rui (332)
Ant colony optimization and energy management routing algorithm for ZigBee network PENG You, YANG Hui-xian, MAN Sha (335)
Coverage optimization of wireless sensor networks based on chaos particle swarm algorithm LIU Wei-ting, FAN Zhou-yuan (338)

Graphics and image technology

- Extracting disparity map from bifocal monocular stereo vision in a novel way XU Shu-shu, WANG Yuan-qing, ZHANG Zhao-yang (341)
3D voxel reconstruction under multiple constraints in multi-view environment CHEN Ning, LI Xiu-xiu, ZHENG Jiang-bin (344)
Collision detection based on topology hierarchy graph WANG Hai-ling, YIN Gui-sheng, CHEN Huai-you, ZHANG Jing (347)
Dressing simulation system for costume structure design MAO Gang, HUAI Yan, ZHOU Gang (351)
Multi-scale Harris corner detection based on image block ZHANG Hai-yan, LI Yuan-yuan, CHU Chen-yun (356)
Key frame extraction based on particle swarm optimization ZHANG Jian-ming, JIANG Xing-jie, LI Guang-cui, JIANG Liang (358)
New color image multi-level-inpainting method ZHOU Shan-shan, ZHAO Zhi-jin, YE Xue-yi (362)
Block increasing texture synthesis algorithm based on shuffled frog leaping algorithm and particle swarm optimization ZHANG You-sai, GAO Meng-qi (366)
Watershed segmentation algorithm based on gradient modification and region merging ZHANG Jian-ming, ZHANG Ju, WANG Juan (369)
Image segmentation by fissile K -mean clustering method ZHANG Jian, SONG Gang (372)
Improved FCM algorithm using difference of neighborhood information LIN Ya-zhong, HAO Gan, GU Jin-ku (375)
3D sculpture algorithm based on hierarchical slicing theory WANG Zheng-you, HUANG Lin-lin, ZHANG Guo-xian (379)
Improved PDE image denoising method based on logarithmic image processing GUO Mao-yin, TIAN You-xian (383)
Color image filtering algorithm based on neighborhood Mean-Shift HE Xi-ping (386)
Dynamic window-based adaptive median filter algorithm LIU Ming (390)
New fast prediction mode selection algorithm in H. 264/AVC frame SU Qi, ZHANG Fa-cun (393)

Pattern recognition

- Paper currency number recognition based on binary tree and Adaboost algorithm PAN Hu, CHEN Bin, LI Quan-wen (396)
Range profile target recognition based on second-order fuzzy clustering PENG Xiang, ZHOU Dai-ying (399)
New FCM algorithm based on real-coded chaotic quantum-inspired genetic algorithm for remote sensing image segmentation LU Bin-bin, JIA Zhen-hong, HE Di, YANG Jie, PANG Shao-ning (402)
Effective video feature for action recognition LI Ying-jie, YIN Yi-xin, DENG Fei (406)
Sudden violence identification algorithm based on motion feature PU Jing, FU Rao, HU Dong, LU Xuan (410)
Feature extraction and recognition based on banana-radar echo images MENG Hong-fei, NIU Jian-qiang, YANG Rui-rui, DUAN Shi-zhong (413)
Application of improved semi-supervised clustering in MEG brain computer interface ZHOU Li-na, LÜ Meng (416)
Face recognition algorithm fusing 2DPCA and fuzzy 2DLDA ZHAO Dong-juan, LIANG Jiu-zhen (420)
Dorsal hand vein recognition based on wavelet decomposition and K2DPCA-2DLDA LÜ Cen, CHENG Cheng, ZHAO Dong-xia (423)
Discrimination between closed and open shell pistachio nuts using machine vision GUO Xiao-wei (426)

Database and data mining

- Parallel PSO combined with K -means clustering algorithm based on MPI LÜ Yi-qing, LIN Jin-xian (428)
Improved K -means algorithm and its implementation based on density FU De-sheng, ZHOU Chen (432)

Effectiveness and implementation of low frequency rule based on Apriori algorithm	ZHANG Chun-sheng, ZHUANG Li-yan, LI Yan (435)
Fast construction algorithm based on FP-tree	CHEN Zhi-ping, TAN Yi-hong, LI Xue-yong, LUAN Xi-dao (438)
Clustering ensemble method based on co-occurrence similarity	LING Guang, WANG Ming-chun, FENG Jia-yi (441)
XML document clustering method based on quantum genetic algorithm	JIANG Yong, TAN Huai-liang, LI Guang-wen (446)
Mining frequent items on stream data	TU Li, CHEN Ling (450)
Bayesian network classifier based on PSO with predatory escape behavior	KONG Yu-yan, YAO Jin-tao, LI Qiang, ZHU Sheng-lin, ZHANG Ming-wu (454)
Access technology of remote database integrated Spring and Aglet	HUANG Da-rong, HUANG Hui-min (458)
Decentralized approach for metadata management in computing resource sharing platform	JIANG Yan-hua (462)

Artificial intelligence

Design of fuzzy self-tuning PID controller based on field programmable analog array	WANG Yan, LIU Hong-li, WANG Chao (466)
Variable discourse fuzzy control of VAV air-conditioning terminal unit	WANG Cheng-li, LU Jian-gang (470)
Temperature state recognition based on dynamical selection of measuring point location	ZHU Chun-yang, GUO Qi-yi (473)
Decentralized adaptive control of large-scale nonaffine time-varying delay systems	ZHOU Shu-jie, ZHANG Tian-ping (478)
PID controller design of closed-loop gain shaping in CSTR process	LI Shu-qing, ZHANG Sheng-xiu, ZHANG Yu-dong, HU Bo (483)
Particle swarm optimization algorithm based on adaptive Tent chaos search	HUANG Mei-ling, ZHAO Zhi-jie, PU Li-na, WU Fei, ZHAO Mei-ling, CHEN Hao, CHEN Ming-zhe (485)
Fuzzy inference system based on B-spline membership function	LI Jing, TIAN Wei-dong (490)
Optimal credible rules based on rough sets in concept hierarchies	LIANG De-cui, HU Pei (493)
Parameter optimization algorithm for support vector machine based on predatory search genetic algorithm	WANG Ping-ping, MAO Zhi-liang, CHEN Jin-dong, PAN Feng (498)
Parameter optimization of mixed kernel SVM based on momentum particle swarm optimization	WANG Jia, XU Wei-hong (501)

Information security

Correlation power analysis and implementation on KATAN32 cipher	ZHANG Lei, GU Da-wu, GUO Zheng, ZHAO Jian-jie (504)
Threshold rekeying protocol based on multi-receiver signcryption algorithm	BAI Jun, ZHANG Chuan-rong, CUI Xiao-chen (507)
Design and analysis of USB-Key based strong password authentication scheme	YU Jiang, SU Jin-hai, ZHANG Yong-fu (511)
Inverse insert algorithm based on segment hash	TANG Ming, SHI Chang-qiong, ZHOU Kai-qing, ZHANG Da-fang (514)
Encryption algorithm based on non-uniform B-spline curve	WU Sheng, GUO Xin-yu, XIAO Bo-xiang, LU Sheng-lian, WEN Wei-liang (517)
Adaptive digital audio watermarking method based on DCT and lifting wavelet transform	CHEN Xin-long, LI Xiao-yan, HU Guo-qing, SHEN Jia-hao (520)
Department-role based finely granular access control model in management information system	YAN Jun, SU Zheng-lian, LING Hai-feng, ZHU Liang, ZHANG Jiao-jiao (523)
Data recovery algorithm based on file feature on Windows platform	HU Min, YANG Ji-yun, JIANG Wei (527)

Advanced computing and signal processing

Relationship between makespan of grid job and granularity of job partitioning	LI Rong-sheng, ZHAO Wen-feng, XU Hui-min (530)
High-order FIR filter design on FPGA using MA distributed algorithm	LI Fei, ZENG Yi-cheng, AN Chao-qun, YU Yun-xia (533)
Direct data domain based method for ground moving target indication by bistatic airborne radar	HE Fei, JIANG Dong-chu (537)
Fast implementation of point multiplication over elliptic curve F_2^m based on FPGA	WEI Dong-mei, YANG Tao (540)
Variable metric threshold algorithm for identification signal denoise of fractional system based on wavelet analysis	ZHU Cheng-xiang, ZOU Yun (543)
Correlation analysis of LSF and differential LSF parameters	HAN Xiao-lei, ZHAO Xiao-qun, FANG Teng-long, JIA Xiao-guang (548)
Algorithm for underdetermined blind source separation based on DSNMF	LU Hong, ZHAO Zhi-jin, YANG Xiao-niu (553)
Independent component analysis with innovation model	SHU Lang, SHU Qin, SU Jing (556)

Typical applications

Design and implementation of Android phone based access and control in smart space	GENG Dong-jiu, SUO Yue, CHEN Yu, WEN Jun, LÜ Yong-qiang (559)
Design and implementation of parallel architecture for legacy system	LUO Dan, ZHOU Bo (562)
FPGA implementation and application of PCI interface controller in bus based computer numerical control system	GU Chao, SONG Bao, TANG Xiao-qi (565)
Directed level graph-based approach to automatic Web services composition	FENG Xing-jie, WANG Hui, XU Ya-juan (568)
Component interaction behavior monitor based on dynamic aspect-oriented programming	WAN Can-jun, LI Chang-yun (572)
Enterprise unified authentication and authorization system based on Web services	HU He, ZHANG Qin, CHEN Guo-qing, YANG Yang (577)
3D flight path planning based on optimized potential field theory	LIU Li-feng, ZHANG Shu-qing (581)
Feature gene selection for Chinese hamster classification based on support vector machine	YANG Jun-li, LIU Tian-fu (584)