

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 7 期 2011 年 7 月

目 次

数据库技术

基于结果模式的 Deep Web 数据标注方法	李 明,李秀兰(1733)
内容分发网络中基于数据挖掘的影片热度预测	周志伟,郑 焱,王 嵩(1737)
基于 pairwise 的改进 ranking 算法	程 凡,仲 红(1740)
基于用户实时反馈的协同过滤算法	傅鹤岗,李 冉(1744)
基于用户特征和项目属性的协同过滤推荐算法	陈志敏,李志强(1748)
带约束本体语义扩展的信息过滤算法	颜晶晶(1751)

计算机软件技术

面向服务软件的蜕变测试方法	路晓丽,董云卫(1756)
考虑环境因素的软件可靠性增长模型	韩 炫,雷 航(1759)
基于优化 PSO-SVM 模型的软件可靠性预测	张晓南,刘安心,刘 斌,张宏梅,青 星(1762)
workflow 事务原子性研究	贾亚利,陈红梅(1765)
Web 应用系统性能测试研究与应用	惠斌武,陈明锐,杨登攀(1769)

人工智能

多任务多资源优化调度的病毒遗传算法	齐金平,查显锋(1773)
案例推理变权值引擎模型及权值计算方法	黄浙京,汪斌强,张建辉,贺 磊(1776)
基于机器学习的类目映射方法——国际专利分类法与中国图书馆分类法	新雪茹,齐建东,王立臣,周林志(1781)
特征联合熵的一种改进 K 近邻分类算法	周 靖,刘晋胜(1785)
基于 Pareto 邻域交叉算子的多目标粒子群优化算法	屈 敏,高岳林,江巧永(1789)
神经网络和改进粒子群算法在地震预测中的应用	苏义鑫,沈 俊,张丹红,胡孝芳(1793)

先进计算

基于改进模拟退火算法的软硬件划分	肖 平,徐 成,杨志邦,刘 彦(1797)
周期 B 样条基函数系数的并行算法	周凯汀,郑力新,林福泳(1800)
自适应步长萤火虫优化算法	欧阳喆,周永权(1804)
基于异构感知静态调度与动态线程迁移的异构多核调度机制	张 苗,张德贤(1808)

图形图像技术

基于参数优化的多层次单元划分曲面重建	温佩芝,宁如花,黄锦芳(1811)
基于小波分析的显微视觉景深扩展	宋 宇,李庆玲(1815)
改进的 CenSurF 特征和基于相加图像梯度的快速描述符	陈 方,蒋云良,许允喜(1818)
双阈值级联分类器的加速人脸检测算法	王 燕,公维军(1822)
高分辨率合成孔径雷达图像高速公路检测法	李 敏(1825)
运动目标检测中的环境感知与自适应研究	张 艳,郭继昌,王 琛(1827)
复杂条件下高斯混合模型的自适应背景更新	李明之,马志强,单 勇,张晓燕(1831)
改进的自适应中值滤波算法	黄宝贵,卢振泰,马春梅,赵景秀(1835)

视觉导航中的单目摄像机标定改进算法 周 磊,任国全,李冬伟(1838)

基于 SIFT 和角点特征的商标检索算法 王三虎,姚望舒,凌兴宏(1841)

基于蚁群优化算法的复杂背景图像文字检测方法 李敏花,柏 猛(1844)

基于高层语义视觉词袋的色情图像过滤模型 吕林涛,赵呈轩,尚 进,杨宇祥(1847)

基于特征场景的快速图像匹配方法 杨 磊,郭秀娟(1850)

基于边界曲线弧分割的多椭圆检测 李楠楠,卢荣胜,李 帅,徐 岩,史艳琼(1853)

基于长度减半的二进制码流的压缩算法 高 健,刘 万,宋 奥,王忠元,陈 耀(1856)

信息安全

对两个基于离散对数的数字签名方案的攻击分析与改进 范 函,张少武(1859)

适合可信计算环境基于口令的双向匿名认证密钥协商协议 朱昶胜,刘鹏辉,王庆荣,曹来成(1862)

限定节点查看信息的网络编码签名方案 冯 帆,王彩芬,罗 海,于志轩(1868)

增强的基于网格的无线传感器网络密钥分配方案 袁敬南,游 林(1872)

传感器网络中基于信誉模型的对偶密钥建立算法 成奋华(1876)

Web 服务信任类型动态定义 昌 燕(1880)

基于互斥角色约束的静态职责分离策略 王 婷,陈性元,张 斌,任志宇,王 鲁(1884)

基于用户行为的加权信任计算方法 刘绮虹,武小年,杨 丽(1887)

改进的 SIR 计算机病毒传播模型 冯丽萍,王鸿斌,冯素琴(1891)

基于变长元组的文件类型识别算法 曹 鼎,罗军勇,尹美娟(1894)

基于图聚类入侵检测算法 王国辉,林果园(1898)

基于数据挖掘技术的加壳 PE 程序识别方法 赵跃华,张 翼,言洪萍(1901)

基于离散对数问题的多级代理盲签名方案 王 晚,杜伟章(1904)

基于 QC-LDPC 码的 Niederreiter 公钥密码体制 杨磊鑫,杜伟章(1906)

应用 Henon 超混沌系统改进的图像加密 乐鸿辉,李 涛,石 磊(1909)

KNXnet/IP 协议安全性分析与改进 刘君昌,张暖煌(1912)

改进的基于模函数的数据隐藏方案 刘开会,徐江峰(1917)

网络与通信

基于排队模型的包链测量方法特征分析 何晓桃,黎文伟(1920)

基于移动代理的大规模无线传感器网络路由优化算法 周 强,崔逊学,陈桂林(1924)

多信道无线 Mesh 网络的路由协议 彭 易,朱 磊,刘 玲(1928)

基于邻居缓存的 AODV 路由协议 李世宝,洪 利(1931)

基于消融包列的瓶颈带宽测量和定位方法 贾民政,朱元忠,余镇危,张 英(1934)

基于移动节点的无线传感器网络中的瓶颈节点 邓亚平,吴川平(1939)

DV-Hop 算法定位误差和覆盖率的改进 张 静,曹 敦,傅 明,陈子琦(1944)

相关信道下基于多用户 STBC-OFDM 系统的子载波分配 李 强,李城鑫,黄玉清,姚远程(1948)

基于耦合映像格子的有向网络相继故障 马秀娟,马福祥,赵海兴(1952)

基于 H. 264 可伸缩视频流的自适应媒体播放算法 李晚峰,刘洪盛,任通菊(1956)

基于最大干扰网络编码的应用层多播算法 刘永广,张 剑,姚若河(1959)

求解圆盘图中最小连通支配集的近似算法 赵学锋(1962)

异构网络中的网络选择问题 曾旭斌,原 玲,孔博文(1966)

三类超宽带芯片设计方案的比较分析 赵 亮,金 梁,李中恒,陈金玉,刘双平(1971)

基于灰色预测的链路即将中断触发算法 孔博文,原 玲,曾旭斌(1976)

P2P 应用中一种多层 NAT 穿透解决方案的设计与实现 刘泽阳,徐武平(1980)

典型应用

SOA 关键型系统 QoS 可感知的服务动态实时组合策略 张 奕,蔡皖东(1984)

基于基类模型模板的自动武器协同设计系统 楼 俐,徐 诚,王永娟,张飞猛(1988)

传感器网络中基于预处理证据理论的数据融合 任秀丽,田 洋(1992)

基于现场可编程门阵列的语谱图显示与增强 陶中幸,裴 东,王全州,杨鸿武,裴会新(1995)

新的 RoboCup 救援仿真分区消防策略 吴云标,杨宜民(1998)

基于 World Wind 的移民信息系统设计与应用 姜仁贵,解建仓,李建勤,杨明祥(2001)

嵌入式微处理器分支预测的设计与实现 陈海民,李 峥,王瑞蛟(2004)

高速 U 盘病毒隔离器的设计与实现 张 毅,杨校权(2008)

离散变结构控制基于扰动动态补偿的理想趋近律 刘云龙,高存臣,赵 林,梁 霄(2011)

2011 年选题方向和重点栏目组稿内容 (封二)

最新引用指标 (封二)

2011 CCF 中国计算机大会征文通知 (封三)

第六届中国生物识别学术会议征稿通知 (封三)

Journal of Computer Applications

Vol.31 No.7 July 2011

Contents

Database technology

- Deep Web data annotation method based on result schema LI Ming, LI Xiu-lan (1733)
- Popularity forecast of movies based on data mining in content distributed/delivery network
..... ZHOU Zhi-wei, ZHENG Quan, WANG Song (1737)
- Improved ranking algorithm based on pairwise method CHENG Fan, ZHONG Hong (1740)
- Collaborative filtering algorithm based on real-time user feedback FU He-gang, LI Ran (1744)
- Collaborative filtering recommendation algorithm based on user characteristics and item attributes
..... CHEN Zhi-min, LI Zhi-qiang (1748)
- Mechanism of ontology semantic extension with constraints for information filtering YAN Jing-jing (1751)

Computer software technology

- Testing of service-oriented software: a metamorphic testing approach LU Xiao-li, DONG Yun-wei (1756)
- Software reliability growth model considering environmental difference HAN Xuan, LEI Hang (1759)
- Software reliability prediction based on improved PSO-SVM model
..... ZHANG Xiao-nan, LIU An-xin, LIU Bin, ZHANG Hong-mei, QING Xing (1762)
- Research of atomicity in workflow transaction YUN Ya-li, CHEN Hong-mei (1765)
- Research and application of performance test on Web application system HUI Bin-wu, CHEN Ming-rui, YANG Deng-pan (1769)

Artificial intelligence

- Multi-task and multi-resource optimization scheduling of virus genetic algorithm QI Jin-ping, ZHA Xian-feng (1773)
- Case-based reasoning engine model with variable feature weights and its calculation method
..... HUANG Zhe-jing, WANG Bin-qiang, ZHANG Jian-hui, HE Lei (1776)
- Approach of classification mapping between international patent classification and chinese library classification based on machine learning
..... JIN Xue-ru, QI Jian-dong, WANG Li-chen, ZHOU Lin-zhi (1781)
- Improved K-nearest neighbor algorithm for feature union entropy ZHOU Jing, LIU Jin-sheng (1785)
- Multi-objective particle swarm optimization algorithm based on Pareto neighborhood crossover operation
..... QU Min, GAO Yue-lin, JIANG Qiao-yong (1789)
- Application of neural networks and improved PSO algorithms to earthquake prediction
..... SU Yi-xin, SHEN Jun, ZHANG Dan-hong, HU Xiao-fang (1793)

Advanced computing

- Hardware/software partitioning based on improved simulated annealing algorithm
..... XIAO Ping, XU Cheng, YANG Zhi-bang, LIU Yan (1797)
- Parallel algorithm for computing coefficients of periodic B-spline basis functions
..... ZHOU Kai-ting, ZHENG Li-xin, LIN Fu-yong (1800)
- Self-adaptive step glowworm swarm optimization algorithm OUYANG Zhe, ZHOU Yong-quan (1804)
- Heterogenous multi-core mechanism based on heterogeneity-aware static scheduling and heterogeneity-aware dynamic thread migration
..... ZHANG Miao, ZHANG De-xian (1808)

Graphics and image technology

- Parameter optimization based multi-level partition of unity surface reconstruction
..... WEN Pei-zhi, NING Ru-hua, HUANG Jin-fang (1811)
- Focus depth extension for microscopic visual system based on wavelet analysis SONG Yu, LI Qing-ling (1815)
- Improved CenSurE detector and a new rapid descriptor based on gradient of summed image patch
..... CHEN Fang, JIANG Yun-liang, XU Yun-xi (1818)
- Accelerated algorithm of face detection based on dual-threshold cascade classifiers WANG Yan, GONG Wei-jun (1822)
- Freeways detection from high-resolution SAR images LI Min (1825)
- Environmental perception and adaptive research in moving object detection ZHANG Yan, GUO Ji-chang, WANG Chen (1827)
- Adaptive background update based on Gaussian mixture model under complex condition
..... LI Ming-zhi, MA Zhi-qiang, SHAN Yong, ZHANG Xiao-yan (1831)
- Improved adaptive median filtering algorithm HUANG Bao-gui, LU Zhen-tai, MA Chun-mei, ZHAO Jing-xiu (1835)
- Improved algorithm of monocular camera calibration for vision navigation ZHOU Lei, REN Guo-quan, LI Dong-wei (1838)
- Trademark retrieval algorithm based on SIFT feature and corner feature WANG San-hu, YAO Wang-shu, LING Xing-hong (1841)
- Text detection from images with complex background by ant colony optimization algorithm LI Min-hua, BAI Meng (1844)
- Pornographic images filtering model based on high-level semantic bag-of-visual-words
..... LÜ Lin-tao, ZHAO Cheng-xuan, SHANG Jin, YANG Yu-xiang (1847)

Fast image matching method based on eigen-scene YANG Lei, GUO Xiu-juan (1850)
 Multiple ellipses detection based on curve arc segmentation of edge
 LI Nan-nan, LU Rong-sheng, LI Shuai, XU Yan, SHI Yan-qiong (1853)
 Compression algorithm based on half-length of the binary stream
 GAO Jian, LIU Wan, SONG Ao, WANG Zhong-yuan, CHEN Yao (1856)

Information security

Attack analysis and improvement on two DL-based digital signature schemes FAN Han, ZHANG Shao-wu (1859)
 Password-based authenticated key agreement scheme with mutual anonymity for trusted computation
 ZHU Chang-sheng, LIU Peng-hui, WANG Qing-rong, CAO Lai-cheng (1862)
 Network coding signature scheme with limitation of nodes to check news
 FENG Fan, WANG Cai-fen, LUO Hai, YU Zhi-xuan (1868)
 Enhanced key distribution scheme based on grid for wireless sensor networks YUAN You-nan, YOU Lin (1872)
 Reputation model based pair-wise key establishment algorithm for sensor networks CHENG Fen-hua (1876)
 Dynamic classification of trust for Web services CHANG Yan (1880)
 Static eparation of duty policy base on mutually exclusive role constraints
 WANG Ting, CHEN Xing-yuan, ZHANG Bin, REN Zhi-yu, WANG Lu (1884)
 Weighted trust computation method based on behaviors of users LIU Qi-hong, WU Xiao-nian, YANG Li (1887)
 Improved SIR model of computer virus propagation in the network FENG Li-ping, WANG Hong-bin, FENG Su-qin (1891)
 Variable length gram based file type identification algorithm CAO Ding, LUO Jun-yong, YIN Mei-juan (1894)
 Intrusion detection method based on graph clustering algorithm WANG Guo-hui, LIN Guo-yuan (1898)
 Classification of packed PE files based on data mining ZHAO Yue-hua, ZHANG Yi, YAN Hong-ping (1901)
 Multi-level proxy blind signature scheme based on discrete logarithm problem WANG Wan, DU Wei-zhang (1904)
 Niederreiter public-key cryptosystem based on QC-LDPC YANG Lei-xin, DU Wei-zhang (1906)
 Improved image encryption algorithm based on Henon hyperchaotic system YUE Hong-hui, LI Tao, SHI Lei (1909)
 Security analysis and improvement of KNXnet/IP protocol LIU Jun-chang, ZHANG Xi-huang (1912)
 Improved data hiding scheme based on modulus function LIU Kai-hui, XU Jiang-feng (1917)

Network and communications

Analysis on characteristics of packet train measurement methods based on queuing model HE Xiao-tao, LI Wen-wei (1920)
 Mobile Agent-based routing optimization algorithm in large-scale wireless sensor networks
 ZHOU Qiang, CUI Xun-xue, CHEN Gui-lin (1924)
 Routing protocol in multi-channel wireless mesh networks PENG Yi, ZHU Lei, LIU Ling (1928)
 Research of AODV routing protocol based on neighbor cache LI Shi-bao, HONG Li (1931)
 Bottleneck bandwidth measurement and localization based on meltable packet train
 JIA Min-zheng, ZHU Yuan-zhong, YU Zhen-wei, ZHANG Ying (1934)
 Bottleneck nodes in wireless sensor networks based on mobile sensors DENG Ya-ping, WU Chuan-ping (1939)
 Improvement on location error and coverage rate in DV-Hop algorithm ZHANG Jing, CAO Dun, FU Ming, CHEN Zi-qi (1944)
 Adaptive subcarrier allocation of multiuser STBC-OFDM systems in correlated channels
 LI Qiang, LI Cheng-xin, HUANG Yu-qing, YAO Yuan-cheng (1948)
 Cascading failure in coupled map lattices with directed network MA Xiu-juan, MA Fu-xiang, ZHAO Hai-xing (1952)
 Adaptive media playout algorithm for H. 264 scalable video streaming LI Xiao-feng, LIU Hong-sheng, RENG Tong-ju (1956)
 Application-layer multicast algorithm based on maximum interference network coding
 LIU Yong-guang, ZHANG jian, YAO Ruo-he (1959)
 Approximation algorithm for minimum connected dominating set in unit disk graphs ZHAO Xue-feng (1962)
 Network selection for wireless heterogeneous networks ZENG Xu-bin, YUAN Ling, KONG Bo-wen (1966)
 Comparative analysis on three ultra wideband chip design methods
 ZHAO Liang, JIN Liang, JI Zhong-heng, CHEN Jin-yu, LIU Shuang-ping (1971)
 Grey prediction based link going down trigger algorithm KONG Bo-wen, YUAN Ling, ZENG Xu-bin (1976)
 Design and implementation of a solution to multilayer NAT traversal in P2P applications LIU Ze-yang, XU Wu-ping (1980)

Typical applications

QoS-aware service dynamic real-time composition algorithm for SOA-based critical systems ZHANG Yi, CAI Wan-dong (1984)
 Collaborative design system of automatic weapon based on basic class module template
 LOU Li, XU Cheng, WANG Yong-juan, ZHANG Fei-meng (1988)
 Data fusion based on evidence theory by preprocessing in wireless sensor network REN Xiu-li, TIAN Yang (1992)
 Display and enhancement of spectrogram based on field programmable gate array
 TAO Zhong-xing, PEI Dong, WANG Quan-zhou, YANG Hong-wu, PEI Hui-xin (1995)
 New divisional fire strategy of RoboCup rescue simulation WU Yun-biao, YANG Yi-min (1998)
 Design and application of migration information system based on World Wind
 JIANG Ren-gui, XIE Jian-cang, LI Jian-xun, YANG Ming-xiang (2001)
 Design and realization of branch prediction for embedded microprocessor CHEN Hai-min, LI Zheng, WANG Rui-jiao (2004)
 Design and implementation of U disk virus isolator with hi-speed ZHANG Yi, YANG Xiao-quan (2008)
 Ideal reaching law based on dynamic disturbance compensator for discrete variable structure control
 LIU Yun-long, GAO Cun-chen, ZHAO Lin, LIANG Xiao (2011)