计 算 机 工 程 (半月刊)

Jisuanji Gongcheng

第 37 卷　　第 14 期　　2011 年 7 月 20 日

目　次

·专栏·

基于蚁群算法的 WSN 多路径负载均衡路由……王　敏，李士宁，李志刚(1)
基于结构特征量化的本体模块化划分研究……梁　帅，罗强一，毕　诚，等(5)
H.264 高清视频解码实时错误掩盖算法……谢　涛，李志华，黄轶伦(9)
基于敏感性分级的(ai, k)-匿名隐私保护……金　华，张志祥，刘善成，等(12)
核化空间深度包围核的模糊决策异常检测算法……张思魁，王士同(18)
一种 AADL 系统可靠性模型转换方法……高　磊，董云卫，张　凡，等(21)
基于簇头冗余的 WSN 不等规模分簇路由……张　攀，柴乔林(27)

·软件技术与数据库·

基于文档合并的 XML 无线数据广播调度算法……吴晶晶，毛鼎鼎，朱　良，等(31)
基于 Tag 和协同过滤的混合推荐方法……王卫平，王金辉(34)
不完备信息系统属性约简的矩阵算法……王　炜，徐章艳，王　帅，等(36)
一种低代价的图形用户界面回归测试框架……华　涛，李红红，李来祥(39)
一种基于粗糙集的社区结构发现算法……朱文强，伏玉琛(41)
基于本体的异构数据集成框架……钟　将，宋　娟(44)
UML 活动图模型正确性诊断方法……周春燕，李绪蓉，周　良(47)
基于特征索引的图相似查询过滤算法……邹晓红，李　甲，郭景峰，等(50)
基于控制流挖掘的知识维护算法……张　曌，朱东华，李　明(53)
基于聚类的空间数据多比例尺索引树……邹志文，费洪哲，李　根(56)
基于 GPU 的闭合频繁项集挖掘方法……李海峰(59)
最大亚频繁模式挖掘算法研究……张海清，刘胤田(62)
消息序列图的范畴论语义描述……于立兴，陈中育，高　毅(65)
基于条件值的 C/C++预处理测试算法……娄坚波，刘久富，李金奎，等(68)
基于概率潜在语义分析模型的自动答案选择……张　成，曲明成，倪　宁，等(70)

·网络与通信·

IEEE 802.16e 中休眠模式的建模与分析……张丽媛，霍占强(73)
一种改进的室内无线定位算法……邹　杰，李珊君，陈晓明(76)
空基自组网中基于负载均衡的路由策略……欧海斌，尹　艳，熊建新(79)
基于 GPRS 网络的无线 IP 语音通信系统……程　伟，龙昭华，蒋贵全(82)
基于历史相遇间隔的机会网络路由协议……张　翼，周四望(85)
基于不完整数据的异常信号检测方法……马　捷，钟子发，史英春(88)
基于四元组的链路双向带宽测量方法……贾圣文，高仲合，赵金龙(91)
高速长距离网络传输性能优化……王伟杭，任勇毛，岳兆娟，等(94)
无线传感器网络的三维空间定位算法……陆保国，袁　杰(97)
一种改进的以太网物理网络拓扑发现方法……童晓薇(100)

·安全技术·

基于 GQPSO 算法的网络入侵特征选择方法……牟　琦，毕孝儒，厍向阳(103)
基于边缘匹配与最低有效位的图像隐写方法……彭　程，秦　拯，刘　鹏，等(106)
参与者有权重的特殊门限秘密共享方案……王　伟，周顺先(109)
一个无证书代理盲签名方案……张建中，彭丽慧，薛荣红(112)
基于灰色理论的攻击者攻击能力评估……赵博夫，殷肖川，吴传芝(114)
基于 RSA 密码体制的公平秘密共享新方案……柳　毅，郝彦军，庞辽军(118)
一种基于扩频机制的数字图像水印算法……孙利杰，赵景秀，郑美珠，等(120)
基于 BLP 模型的 XML 访问控制研究……叶春晓，尉法文(123)
基于像素差和模函数的隐写方法……李　军，潘　峰，李秀广(125)
多 Agent 系统中基于狄利克雷分布的信任模型……陈广福，蔡国永，林　航，等(128)
基于猴群算法的入侵检测技术……张佳佳，张亚平，孙济洲(131)

万方数据

·人工智能及识别技术·

一种求解 RCPSP 的协同进化分布估计算法……陈　旺，史彦军，滕弘飞(134)
基于文化鱼群算法的到达时间差定位技术……高洪元，于雪梅，赵忠凯(137)
基于噪声倒谱阈值频谱估计的语音活动检测……李　宇，郭雷勇，谭洪舟(140)
双目主动视觉监测平台下的目标识别……孔令富，连秀梅，赵立强(143)
基于 EDA-DP 的 LS-SVM 参数优化选择……熊　杨，肖怀铁，王　伟(146)
经 GA 优化的 WNN 在交通流预测中的应用……杨　超，王志伟(149)
基于均匀设计的聚类多目标粒子群优化算法……刘衍民，牛　奔，赵庆祯(152)
基于 PSO 算法的变差函数球状模型参数拟合……梁昔明，肖晓芳(155)
基于 UKF 的窗口自适应 Mean-Shift 算法……杨　帆，郑春红，杨　刚(158)
自适应遗传算法在智能组卷中的应用……黄宝玲(161)
基于改进基准点定位的指纹匹配算法……李俊伟，周立俭，崔学梅(164)
稀疏保留判决分析在人脸表情识别中的应用……黄　勇(167)
基于 AP 的 LS-SVM 多模型建模算法……宋　坤，李丽娟，赵英凯(169)
基于 SVM-GMM 的开集说话人识别方法……陈　黎，徐东平(172)
基于模糊控制的移动机器人视觉反馈跟踪……孙　妍，王朝立，杨亚民(175)
Bagging 组合的不平衡数据分类方法……秦姣龙，王　蔚(178)
基于 Gibbs 采样与遗传算法的模体识别……刘文远，田陆芳，王常武，等(180)
基于模糊时间知识推理的实时系统冲突研究……田　钊，余　维，叶阳东(183)
一类非确定性车辆路径问题模型及其算法设计……陈　森，姜　江，陈英武，等(186)
基于范畴论的粒合成形式化方法……李　鸿(189)
基于 kAS 特征的目标识别新方法……邝建辉，孙季丰(192)
一种改进的实值负选择算法……刘锦伟，唐　俊(195)
夜晚视频目标检测中的车辆灯光干扰消除方法……张志皓，胡文龙(197)
基于 CMAC 神经网络的电池荷电状态估计……汤　哲，刘万臣，郑　果(200)
一种新的模糊 Petri 网推理机制……傅卓军，黄　璜，李　洋(202)
基于子区域的粒子群优化算法研究……曾嘉俊，刘志刚，黄元亮，等(205)
基于保局部核 RVM 的说话人识别方法……郑泽萍，王万良，郑建炜(208)
动态邻域混合粒子群优化算法……彭　虎，张　海，邓长寿(211)
蚁群算法在林火扑救路径选择中的应用……刘道伟，关　昕(214)

·图形图像处理·

基于滤波器阵列与图割的彩色纹理分割……贺锦鹏，孙　枫，刘利强(217)
多核图像处理并行设计范式的研究与应用……王成良，谢克家，刘　昕(220)
基于混合仿射模型配准的 IBP 超分辨率重建……刘白璐，范　冲，邹峥嵘(223)
边缘加权的结构相似性测度……吕　鹏，张建秋(226)
基于微粒群优化和粗糙熵的图像分割算法……王　明，黄海峰，何　峰，等(228)
基于拉普拉斯谱的医学图像配准算法……夏　云，梁　栋，鲍文霞，等(231)
基于 SIFT 的图像盲取证方法……李　峰，蔡　琼(233)

·工程应用技术与实现·

数字矿山通信网络无线基站的设计与实现……张　骞，阳春华，曹　宇(236)
基于相似度的核主元分析方法及其应用研究……张传标，倪建军，苗红霞(239)
齿轮箱状态监测中的振动信号多标度分析……李　鹏，孔凡让，何清波(242)
中性束注入器测试台的中央定时系统设计……王建松，罗家融，盛　鹏，等(245)
基于 TLM2.0 的 SPARC 事务级建模……周海洋，葛　宁，于立新，等(248)
基于 FSM 的紧凑型回旋加速器控制系统研究……胡　啸，秦　斌，李　冬，等(251)

·开发研究与设计技术·

一种基于扫描链阻塞技术的低费用测试方法……刘　鹏，张　云，尤志强，等(254)
基于改进蚁群算法的贴片机贴装过程优化……王　君，罗家祥，胡跃明(256)
线性反馈控制在保密通信中的应用……张付臣，杨洪亮(259)
曲面渐变纹理合成中重采样问题研究……聂俊岚，赵静萍，王艳芬(262)
基于 GPU 的位并行多模式串匹配研究……赵光南，吴承荣(265)
递归随机分割算法在考试系统中的应用……陈青青(268)
μC/OS-II 中优先级位图算法的改进……陈艳辉，涂晓东，王　卫(271)
基于 WIFI 的公交车载数据传输调度策略……孙　彬，陈　朋，冯驾骏，等(274)
基于联合估计的 Wyner-Ziv 系统边信息重建……卿粼波，沈卫红，何小海(277)
基于 QR-RLS 算法的预失真模型……王　敏，王联国，刘成忠(280)
基于空间局部偏离因子的离群点检测算法……张天佑，王小玲(282)
水族文字笔形编码方法研究……杨德岳，陈笑蓉，郑高山(285)
基于优先级的 TDMA 动态时隙分配算法……李建勋，樊晓光，张　喆，等(288)
基于 FTIR 的多点触摸实时互动桌面系统……赵秋均，王毅刚，黄岸仲，等(291)

万方数据

Computer Engineering (Semimonthly)

Vol.37 No.14 20 July 2011

Contents

Multipath Routing with Load Balancing Based on Ant Colony Algorithm in WSN……WANG Min, LI Shi-ning, LI Zhi-gang(1)
Research of Ontology Modular Partition Based on Structure Characteristics Quantitation……LIANG Shuai, LUO Qiang-yi, BI Cheng, et al(5)
Real-time Error Concealment Algorithm for H.264 High Definition Video Decoding……XIE Tao, LI Zhi-hua, HUANG Yi-lun(9)
(αi, k)-anonymity Privacy Preservation Based on Sensitivity Grading……JIN Hua, ZHANG Zhi-xiang, LIU Shan-cheng, et al(12)
Fuzzy Decision Outlier Detection Algorithm of Kernelized Spatial Depth Sphere……ZHANG Si-yi, WANG Shi-tong(18)
AADL System Reliability Model Transformation Method……GAO Lei, DONG Yun-wei, ZHANG Fan, et al(21)
Unequal Scaled Clustering Routing for WSN Based on Redundancy of Cluster Headers……ZHAGN Qing, CHAI Qiao-lin(27)
XML Wireless Data Broadcast Schedule Algorithm Based on Document Mergence……WU Jing-jing, MAO Ding-ding, ZHU Liang, et al(31)
Hybrid Recommendation Method Based on Tag and Collaborative Filtering……WANG Wei-ping, WANG Jin-hui(34)
Matrix Algorithm for Attribute Reduction in Incomplete Information System……WANG Wei, XU Zhang-yan, WANG Shuai, et al(36)
Low-cost Graphical User Interface Regression Test Framework……HUA Tao, LI Hong-hong, LI Lai-xiang(39)
Community Structure Detection Algorithm Based on Rough Set……ZHU Wen-qiang, FU Yu-chen(41)
Heterogeneous Data Integration Frame Based on Ontology……ZHONG Jiang, SONG Juan(44)
Correctness Diagnosis Method of UML Activity Graph Model……ZHOU Chun-yan, LI Xu-rong, ZHOU Liang(47)
Graph Similarity Query Filtering Algorithm Based on Feature Index……ZOU Xiao-hong, LI Jia, GUO Jing-feng, et al(50)
Knowledge Maintenance Algorithm Based on Control Flow Mining……ZHANG Zhao, ZHU Dong-hua, LI Ming(53)
Multi-scale Index Tree of Spatial Data Based on Clustering……ZOU Zhi-wen, FEI Hong-zhe, LI Gen(56)
Closed Frequent Itemset Mining Method Based on Graphic Processing Unit……LI Hai-feng(59)
Research on Mining Algorithm of Maximal Sub-Frequent Pattern……ZHANG Hai-qing, LIU Yin-tian(62)
Category Theory Semantic Description of Message Sequence Charts……YU Li-xing, CHEN Zhong-yu, GAO Yi(65)
Test Algorithm of C/C++ Preprocessing Based on Conditional Value……LOU Jian-bo, LIU Jiu-fu, LI Jin-kui, et al(68)
Automatic Answer Selection Based on Probabilistic Latent Semantic Analysis Model……ZHANG Cheng, QU Ming-cheng, NI Ning, et al(70)
Modeling and Analysis of Sleep Mode in IEEE 802.16e……ZHANG Li-yuan, HUO Zhan-qiang(73)
Improved Indoor Wireless Localization Algorithm……ZOU Jie, LI Shan-jun, CHEN Xiao-ming(76)
Routing Strategy Based on Load Balancing in Airborne Ad Hoc Network……OU Hai-bin, YIN Yan, XIONG Jian-xin(79)
Wireless IP Voice Communication System Based on GPRS Network……CHENG Wei, LONG Zhao-hua, JIANG Gui-quan(82)
Opportunistic Networks Routing Protocol Based on Historical Intervals of Contacts……ZHANG Yi, ZHOU Si-wang(85)
Abnormal Signal Detection Method Based on Incomplete Data……MA Jie, ZHONG Zi-fa, SHI Ying-chun(88)
Measure Approach of Link Bi-directional Bandwidth Based on Tetrad……JIA Sheng-wen, GAO Zhong-he, ZHAO Jin-long(91)
Transport Performance Optimization for Fast Long-distance Network……WANG Wei-hang, REN Yong-mao, YUE Zhao-juan, et al(94)
3D Space Localization Algorithm on Wireless Sensor Network……LU Bao-guo, YUAN Jie(97)
Improved Method of Ethernet Physical Network Topology Discovery……TONG Xiao-wei(100)
Feature Selection Method for Network Intrusion Based on GQPSO Algorithm……MU Qi, BI Xiao-ru, SHE Xiang-yang(103)
Image Steganography Method Based on Side Match and Least Significant Bit……PENG Cheng, QIN Zheng, LIU Peng, et al(106)
Special Threshold Secret Sharing Scheme Among Weighted Participants……WANG Wei, ZHOU Shun-xian(109)
Certificateless Proxy Blind Signature Scheme……ZHANG Jian-zhong, PENG Li-hui, XUE Rong-hong(112)
Attack Ability Evaluation of Attackers Based on Grey Theory……ZHAO Bo-fu, YIN Xiao-chuan, WU Chuan-zhi(114)
Fair Secret Sharing Scheme Based on RSA Cryptosystem……LIU Yi, HAO Yan-jun, PANG Liao-jun(118)
Digital Image Watermark Algorithm Based on Spread Spectrum Mechanism……SUN Li-jie, ZHAO Jing-xiu, ZHENG Mei-zhu, et al(120)
Research on XML Access Control Based on BLP Model……YE Chun-xiao, YU Fa-wen(123)
Steganography Method Based on PVD and Modulus Function……LI Jun, PAN Feng, LI Xiu-guang(125)
Trust Model Based on Dirichlet Distribution in Multi-Agent System……CHEN Guang-fu, CAI Guo-yong, LIN Hang, et al(128)
Intrusion Detection Technology Based on Monkey Algorithm……ZHANG Jia-jia, ZHANG Ya-ping, SUN Ji-zhou(131)
Coevolutionary Estimation of Distribution Algorithm for Solving Resource-constrained Project Scheduling Problem……CHEN Wang, SHI Yan-jun, TENG Hong-fei(134)
Time Difference of Arrival Location Technology Based on Cultural Fish Swarm Algorithm……GAO Hong-yuan, YU Xue-mei, ZHAO Zhong-kai(137)
Voice Activity Detection Based on Noise Cepstrum Thresholding Spectral Estimation……LI Yu, GUO Lei-yong, TAN Hong-zhou(140)
Object Identification in Binocular Active Visual Monitoring Platform……KONG Ling-fu, LIAN Xiu-mei, ZHAO Li-qiang(143)

万方数据

Optimal Selection of LS-SVM Parameter Based on EDA-DP……XIONG Yang, XIAO Huai-tie, WANG Wei(146)
Application of Wavelet Neural Network Optimized by Genetic Algorithm in Traffic Volume Prediction……YANG Chao, WANG Zhi-wei(149)
Clustering Multi-objective Particle Swarm Optimization Algorithm Based on Uniform Design……LIU Yan-min, NIU Ben, ZHAO Qing-zhen(152)
Parameter Fitting of Variogram Spherical Model Based on Particle Swarm Optimization Algorithm……LIANG Xi-ming, XIAO Xiao-fang(155)
Mean-Shift Algorithm with Adaptive Window Based on UKF……YANG Fan, ZHENG Chun-hong, YANG Gang(158)
Application of Adaptive Genetic Algorithm in Intelligent Test Paper Composition……HUANG Bao-ling(161)
Fingerprint Match Algorithm Based on Improved Fiducial Point Location……LI Jun-wei, ZHOU Li-jian, CUI Xue-mei(164)
Application of Sparse Preserving Discriminant Analysis in Facial Expression Recognition……HUANG Yong(167)
LS-SVM Multi-model Modeling Algorithm Based on AP……SONG Kun, LI Li-juan, ZHAO Ying-kai(169)
Method of Open-set Speaker Recognition Based on SVM-GMM……CHEN Li, XU Dong-ping(172)
Visual Feedback Tracking of Mobile Robot Based on Fuzzy Control……SUN Yan, WANG Chao-li, YANG Ya-min(175)
Imbalanced Data Classification Method for Bagging Combination……QIN Jiao-long, WANG Wei(178)
Motif Identification Based on Gibbs Sampling and Genetic Algorithm……LIU Wen-yuan, TIAN Lu-fang, WANG Chang-wu, et al(180)
Research of Real-time System Conflict Based on Fuzzy Time Knowledge Reasoning……TIAN Zhao, SHE Wei, YE Yang-dong(183)
A Class of Non-deterministic Vehicle Routing Problem Model and Its Algorithm Design……CHEN Sen, JIANG Jiang, CHEN Ying-wu, et al(186)
Formal Method of Granular Synthesis Based on Category Theory……LI Hong(189)
Target Recognition Method Based on kAS Feature……KUANG Jian-hui, SUN Ji-feng(192)
Improved Real-value Negative Selection Algorithm……LIU Jin-wei, TANG Jun(195)
Elimination Method of Vehicle Light Interference in Nighttime Video Object Detection……ZHANG Zhi-hao, HU Wen-long(197)
Battery State of Charge Estimation Based on Cerebellar Model Articulation Controller Neural Network…ANG Zhe, LIU Wan-chen, ZHENG Guo(200)
New Reasoning Mechanism of Fuzzy Petri Net……FU Zhuo-jun, HUANG Huang, LI Yang(202)
Research of Particle Swarm Optimization Algorithm Based on Sub-region……ZENG Jia-jun, LIU Zhi-gang, HUANG Yuan-liang, et al(205)
Speaker Recognition Method Based on RVM Using Locality Preserving Kernel……ZHENG Ze-ping, WANG Wan-liang, ZHENG Jian-wei(208)
Dynamic Neighborhood Hybrid Particle Swarm Optimization Algorithm……PENG Hu, ZHANG Hai, DENG Chang-shou(211)
Application of Ant Colony Algorithm in Forest Fires Fighting Path Selection……LIU Dao-wei, GUAN Xin(214)
Color Texture Segmentation Based on Filter Bank and Graph Cut……HE Jin-peng, SUN Feng, LIU Li-qiang(217)
Research and Application of Multi-core Image Processing Parallel Design Scheme……WANG Cheng-liang, XIE Ke-jia, LIU Xin(220)
IBP Super Resolution Reconstruction Based on Combined Affine Model Registration……LIU Bai-lu, FAN Chong, ZOU Zheng-rong(223)
Edge-weighted Structural Similarity Index……LV Peng, ZHANG Jian-qiu(226)
Image Segmentation Algorithm Based on Particle Swarm Optimization and Rough Entropy……WANG Ming, HUANG Hai-feng, HE Feng, et al(228)
Medical Image Registration Algorithm Based on Laplacian Spectrum……XIA Yun, LIANG Dong, BAO Wen-xia, et al(231)
Images Forgery Method Based on SIFT……LI Feng, CAI Qiong(233)
Design and Implementation of Wireless Base Stations in Digital Mine Communication Network……ZHANG Qian, YANG Chun-hua, CAO Yu(236)
Study on Kernel Principal Component Analysis Method Based on Similarity and Its Application……
……ZHANG Chuan-biao, NI Jian-jun, MIAO Hong-xia, et al(239)
Multiscale Analysis on Vibration Signal in Gearbox Condition Monitoring……LI Peng, KONG Fan-rang, HE Qing-bo(242)
Design of Central Timing System for Neutral Beam Injector Test Bench……WANG Jian-song, LUO Jia-rong, SHENG Peng, et al(245)
Transaction Level Modeling of SPARC Based on TLM2.0……ZHOU Hai-yang, GE Ning, YU Li-xin, et al(248)
Research on Control System of Compact Cyclotron Based on Finite State Machine……HU Xiao, QIN Bin, LI Dong, et al(251)
Low Cost Test Method Based on Scan Chain Disabling Technique……LIU Peng, ZHANG Yun, YOU Zhi-qiang, et al(254)
Mount Process Optimization for Chip Mounter Based on Improved Ant Colony Algorithm……WANG Jun, LUO Jia-xiang, HU Yue-ming(256)
Application of Linear Feedback Control in Secrecy Communication……ZHANG Fu-chen, YANG Hong-liang(259)
Research of Resample Problem in Progressively-variant Texture Synthesis on Surfaces……NIE Jun-lan, ZHAO Jing-ping, WANG Yan-fen(262)
Research on Multiple Pattern String Matching with Bit-parallelism Based on GPU……ZHAO Guang-nan, WU Cheng-rong(265)
Application of Recursion Random Division Algorithm in Examination System……CHEN Qing-qing(268)
Improvement of Priority Bit Map Algorithm in μC/OS-II……CHEN Yan-hui, TU Xiao-dong, WANG Wei(271)
Schedule Strategy for Public Transport Vehicle Data Transmission Based on WIFI……SUN Bin, CHEN Peng, FENG Jia-qin, et al(274)
Reconstruction of Side Information in Wyner-Ziv System Based on Joint Estimation……QING Lin-bo, SHEN Wei-hong, HE Xiao-hai(277)
Predistortion Model Based on QR-RLS Algorithm……WANG Min, WANG Lian-guo, LIU Cheng-zhong(280)
Outlier Detection Algorithm Based on Space Local Deviation Factor……ZHANG Tian-you, WANG Xiao-ling(282)
Study on Coding Method of Shui Nationality Characters According to Stroke Shape……YANG Han-yue, CHEN Xiao-rong, ZHEN Gao-shan(285)
TDMA Dynamic Slot Allocation Algorithm Based on Priority……LI Jian-xun, FAN Xiao-guang, ZHANG Zhe, et al(288)
Multi-touch Real-time Interactive Tabletop System Based on Frustrated Total Internal Reflection……
……ZHAO Qiu-jun, WANG Yi-gang, HUANG An-zhong, et al(291)

万方数据