

# 计算机工程(半月刊)

第36卷 第22期 2010年11月20日

## 目 次

### • 特邀论文 •

实时协同中的一致性维护关键技术 ..... 邵斌, 卢嗷, 顾宁(1)

### • 博士论文 •

含时间参量的传感器网络修正感知模型 ..... 邓瀚林, 黄河清, 吴明娟, 等(7)

基于 Prolog 语言的商品推荐知识库模型 ..... 汲业, 陈燕, 屈莉莉, 等(10)

基于排序思想的高维稀疏数据聚类 ..... 赵琴, 高学东, 武森, 等(13)

基于 NBICA 的盲反卷积方法 ..... 程成, 萧蕴诗, 岳继光(15)

RFID 认证协议 U LAP 的被动攻击分析 ..... 王少辉, 王高丽(17)

对等组的快速开关型矢量中值滤波 ..... 钟灵, 章云(20)

基于随机 Petri 网的柔性工作流可用性分析 ..... 张静乐, 杨扬, 高昂, 等(22)

基于综合统计法的算法效率分析和优化 ..... 王成, 赵金伟, 闫桂荣(26)

基于耦合映射格子的混沌块密码系统 ..... 王天舒; 王兴元, 赵剑锋(29)

寡核苷酸芯片的逐步探针选取算法 ..... 彭胜蓝, 周一鸣(32)

基于分块路径缓存的在线路径搜索算法 ..... 胡庆武, 周洋(34)

近断层危害场的三维并行数值模拟 ..... 程海英, 谢江, 邵华钢(37)

### • 软件技术与数据库 •

用于过程数据压缩的自控精度 SDT 算法 ..... 曲奕霖, 王文海(40)

基于流立方体的数据流频繁模式挖掘算法 ..... 袁正午, 程宇翔, 梁均军, 等(43)

基于 FeaVer 的 MINIX 3 验证和改进 ..... 全嘉辉, 张欢欢(46)

基于扩展区间编码的 XML 结构连接算法 ..... 朱晓娟(49)

基于矩阵加权关联规则的区间模糊 C 均值聚类 ..... 曾利军, 李泽军, 柳佳刚(52)

Web 目志中 RCFIA 路径的挖掘方法 ..... 许晓东, 李柯, 朱上瑞(55)

基于 UML 序列图的测试用例生成 ..... 李志强, 邵培南, 朱辉(58)

基于位置索引矩阵的关联规则挖掘算法 ..... 岳海涛, 李杰, 肖琳琳(61)

基于谱聚类的多文档摘要新方法 ..... 林立, 胡侠, 朱俊彦(64)

基于等价类的 Apriori 优化算法 ..... 俞有光, 钟子发, 马捷(66)

基于抽象解释的可执行代码值范围分析 ..... 宋增杰, 王震宇, 姚伟平, 等(69)

并行 k 均值聚类算法的完备性证明与实现 ..... 陶治, 曾志勇, 余建坤, 等(72)

基于本体的 Web 文本挖掘与信息检索 ..... 艾伟, 孙四明, 张峰(75)

XML 数据交换在 Office 二次开发中的应用 ..... 桑银邦, 王成良(78)

海量中文短信文本密度聚类研究 ..... 周泓, 刘金岭(81)

基于二次挖掘的外部 IM 用户辨别方法 ..... 王斌(83)

数据流最大频繁项挖掘方法 ..... 张月琴, 陈东(86)

基于请求响应控制机制的数据调度策略 ..... 黄鹏辉, 王娟, 朱艳琴, 等(88)

### • 网络与通信 •

WSN 中基于定向天线的节能寻路机制 ..... 杨光松, 耿旭(91)

基于预留信道机制的 CR 频谱切换描述及改进 ..... 张伟卫, 赵知劲, 王海泉(94)

基于伙伴链的 MANET IP 分配法 ..... 肖奇, 张卫, 周渊, 等(97)

Ad hoc 网络中 MAC 不公平性的研究与改进 ..... 唐勇, 周满元(100)

AODV 的能量策略研究 ..... 潘云霞, 莫常鹏(103)

Nakagami 信道中 MT-MFSK 信号性能分析 ..... 留黎钦, 王保云, 张荔(106)

基于 ROE 的轻型 PMIPv6 路由优化策略 ..... 李占波, 王利明, 王薛苑(108)

P2P 网络中 Free-rider 的平衡机制 ..... 李玉玲, 刘玉华, 许凯华, 等(111)

一种优化链路状态预测的路由协议 ..... 刘伟, 张可, 张伟, 等(113)

一种支持移动 Sink 的局部路由维护机制 ..... 唐云建, 石为人, 易军, 等(116)

一种快速维持队列稳定的 BLUE 改进算法 ..... 汪洋, 张涛, 张军(119)

### • 安全技术 •

一种改进的会议密钥分配方案 ..... 刘忆宁, 曹建宇, 叶俊, 等(122)

基于 WNN 和 EGA 的信息安全风险评估 ..... 刘明生, 孙树静(125)

基于 SOAP 消息的过度加密攻击检测算法 ..... 高文健, 赵逢禹(129)

一种简单的多秘密共享方案 ..... 黄梅娟, 胡江红, 张建中(132)

基于 LE-Trie 的防火墙策略检测算法 ..... 梁建武, 龙晓梅, 刘军军(134)

|                                 |                       |
|---------------------------------|-----------------------|
| 基于身份密码体制的 AODV 安全改进.....        | 罗兆龙, 裴廷睿, 苏杰, 等(137)  |
| 风电机组跨域安全访问技术研究.....             | 李怡(140)               |
| 一种动态门限多组秘密共享方案.....             | 乔晓林, 张建中(143)         |
| 基于 NTRU 的数字签名方案分析.....          | 潘彦丰(145)              |
| 水平线在半脆弱性数字水印中的应用.....           | 张明勋, 张壹, 江颖(147)      |
| 基于 CTMC 的入侵容忍系统安全性量化方法.....     | 杨天扬, 黄建华(150)         |
| WEP 协议攻击方法研究.....               | 刘永磊, 金志刚(153)         |
| 基于极角扩展的可逆自数据库水印算法.....          | 陶伟成, 李智勇, 李厚甫(155)    |
| 加权无标度网络的免疫策略研究.....             | 李天华, 邹艳丽, 唐贤健, 等(158) |
| 入侵检测系统中改进的 AC_BMH 算法.....       | 孟庆端, 吕东伟, 梁祖华(160)    |
| Windows 7 安全启动技术分析.....         | 江逸若, 刘胜利(163)         |
| 基于 NetFlow 的动态 K 层特征模型库建立.....  | 郑建忠, 周世杰, 王娟(165)     |
| 基于跨区域追踪的确定包标记方案.....            | 徐劲松, 黄汝成, 黄碗明(168)    |
| 基于聚类矩阵的入侵日志关联规则算法.....          | 彭剑, 王小玲(170)          |
| • 人工智能及识别技术 •                   |                       |
| 多种群协同进化算法在经济调度中的应用.....         | 吴应斌, 孟宪明, 陈瀚宁(173)    |
| 数据规范化方法对 K 近邻分类器的影响.....        | 蔡维玲, 陈东霞(175)         |
| 基于动态加权的粗糙子空间集成.....             | 欧吉顺, 朱玉全, 陈耿, 等(178)  |
| 基于多层神经网络的洗钱风险评估方法.....          | 徐璘俊, 杨建刚(181)         |
| 基于关联分析的文本分类特征选择算法.....          | 张彪, 刘贵全(184)          |
| 基于改进型神经网络的软件可靠性模型.....          | 熊小均, 梅登华(187)         |
| 改进的基于空间特征的划痕检测.....             | 张利平, 张红英, 吴斌(190)     |
| 基于免疫 RBF 神经网络的逆运动学求解.....       | 魏娟, 杨恢先, 谢海霞(192)     |
| SA-SVR 在移动通信话务量预测中的应用.....      | 谭铭峰, 贾振红, 罗锡忠, 等(195) |
| 基于蚁群算法的最小权三角剖分求解.....           | 李木子, 闫建华, 国海涛, 等(197) |
| 基于多尺度的肿瘤轮廓结构不规则性特征分析.....       | 秦波, 马莉(200)           |
| CTM 与 SVM 相结合的文本分类方法.....       | 王燕霞, 邓伟(203)          |
| 基于 HOG 的行人快速检测.....             | 叶林, 陈岳林, 林景亮(206)     |
| • 图形图像处理 •                      |                       |
| 基于量子测量算子的噪声可信度滤波.....           | 梁西腾, 王家海(208)         |
| 改进的沃尔什滤波的图像插值算法.....            | 冀吉, 赵晓玲, 张煜东(211)     |
| 基于图割与改进水平集的目标提取方法.....          | 王晓飞, 郭敏, 徐秋平(214)     |
| 基于多通道图像的非彩物体图像高动态合成.....        | 杭添, 江兴智, 赵宇明(217)     |
| 单幅图像的保纹理阴影去除.....               | 陈继国, 沈超敏(219)         |
| • 多媒体技术及应用 •                    |                       |
| 基于 PID 控制的自适应媒体播放算法.....        | 何菲, 杨坚, 翁宏生, 等(222)   |
| 基于二维映射关系的视频信息隐藏算法.....          | 刘争艳, 李絮, 陈蕴(225)      |
| 基于多特征融合的粒子滤波视频跟踪算法.....         | 刘一鸣, 周尚波(228)         |
| 一种快速的视频刚体运动目标检测算法.....          | 周文玲, 全红艳, 郭义江(231)    |
| • 工程应用技术与实现 •                   |                       |
| 半实物仿真综合实验台控制系统方案.....           | 杜亚娟(233)              |
| 一种面积与功耗优化的卷积器设计.....            | 陈琛, 陈贲, 曾晓洋(236)      |
| 基于 USB 总线的激光三维雕刻控制系统.....       | 赵永礼, 杨寅华, 王红(239)     |
| 基于虚拟输出队列的新型 NoC 架构.....         | 周升, 潘贲, 丁勇, 等(242)    |
| • 开发研究与设计技术 •                   |                       |
| FTP 服务器枢纽中的文件处理引擎设计.....        | 聂岩峰, 彭向军, 徐先超(245)    |
| 基于混合推荐技术的推荐模型.....              | 张驰, 陈刚, 王慧敏(248)      |
| 拓扑结构对动态增长的复杂网络的影响.....          | 江昌华, 任庆生(251)         |
| 一种混合优先级的防危调度算法.....             | 万明, 张凤鸣, 樊晓光(254)     |
| 面向 AS 级动态拓扑的改进 PPP 模型.....      | 高飞, 黄良斌(256)          |
| 支持语义等价的自动化订阅分解方法.....           | 来瑾颖, 徐印成, 尹建伟, 等(259) |
| 基于遗传蚁群算法的片上网络映射研究.....          | 刘炎华, 刘静, 赖宗声, 等(262)  |
| 基于本体的大规模定制产品配置模型.....           | 单汨源, 宋泽宇, 黄婧(265)     |
| 基于 SaaS 的 CAPP 服务研究.....        | 叶利娜, 林兰芬(268)         |
| 基于元数据语义模型的数字资源 Top-N 检索.....    | 徐和祥, 张世明(272)         |
| 基于 e-Connections 的旅游领域本体构建..... | 李璞, 施雅贤, 蒋运承(274)     |
| 基于 GIS 的道路气象图形与文本自动生成.....      | 吴换萍, 韦锦超, 赵琳娜, 等(277) |
| 基于 Voronoi 图的棋盘格角点匹配算法.....     | 王剑涛, 杨旭波(280)         |
| 可重构计算的硬件任务调度算法.....             | 李文君, 杭德全, 张果(283)     |
| 基于粒子系统的三叶玫瑰动态烟花模拟.....          | 胡文平, 汪继文(286)         |
| RSSI 在 RFID 读写器中的应用.....        | 段璞, 刘春江, 武岳山(289)     |
| PageRank 算法的分析及其改进.....         | 王德广, 周志刚, 梁旭(291)     |

# Computer Engineering (Semimonthly)

Vol.36 No.22

20 November 2010

## Contents

|   |   |
|---|---|
| Key Techniques of Consistency Maintenance in Real-time Collaboration.....                             | SHAO Bin, LU Tun, GU Ning(1)                            |
| Improving Sensing Model in Sensor Networks with Temporal Parameter.....                               | DENG Han-lin, HUANG He-qing, WU Ming-juan, et al(7)     |
| Commodity Recommendation Knowledge Base Model Based on Prolog Language.....                           | JI Ye, CHEN Yan, QU Li-li, et al(10)                    |
| High Dimensional Sparse Data Clustering Based on Sorting Idea.....                                    | ZHU Qin, GAO Xue-dong, WU Sen, et al(13)                |
| Blind Deconvolution Method Based on Noisy Banded Independent Component Analysis.....                  | CHENG Cheng, XIAO Yun-shi, YUE Ji-guang(15)             |
| Analysis of Passive Attack on RFID Authentication Protocol ULAP.....                                  | WANG Shao-hui, WANG Gao-li(17)                          |
| Ultra-fast Switching Vector Median Filtering of Peer Group.....                                       | ZHONG Ling, ZHANG Yun(20)                               |
| Availability Analysis of Flexible Workflow Based on Stochastic Petri Net.....                         | ZHANG Jing-le, YANG Yang, GAO Ang, et al(22)            |
| Algorithm Efficiency Analysis and Optimization Based on Comprehensive Statistics Method.....          | WANG Cheng, ZHAO Jin-wei, YAN Gui-rong(26)              |
| Chaotic Block Cryptosystem Based on Coupled Map Lattice.....  | WANG Tian-shu, WANG Xing-yuan, ZHAO Jian-feng(29)       |
| Stepwise Probe Selection Algorithm for Oligonucleotide Array.....                                     | PENG Sheng-lan, ZHOU Yi-ming(32)                        |
| On-line Path Search Algorithm Based on Spatial Block Path Cache.....                                  | HU Qing-wu, ZHOU Yang(34)                               |
| 3D Parallel Numerical Simulation for Near-fault Endangered Field.....                                 | CHENG Hai-ying, XIE Jiang, SHAO Hua-gang(37)            |
| Automatic Parameter Control SDT Algorithm for Process Data Compression.....                           | QU Yi-lin, WANG Wen-hai(40)                             |
| Mining Algorithm for Frequent Pattern in Data Stream Based on Stream-cube.....                        | YUAN Zheng-wu, CHENG Yu-xiang, LIANG Jun-jun, et al(43) |
| Verification and Improvement of MINIX 3 Based on FeaVer.....  | QUAN Jia-hui, ZHANG Huan-huan(46)                       |
| XML Structural Join Algorithm Based on Extended Region Coding.....                                    | ZHU Xiao-juan(49)                                       |
| Interborough Fuzzy C-Means Clustering Based on Matrix-weighted Association Rule.....                  | ZENG Li-jun, LI Ze-jun, LIU Jia-gang(52)                |
| Mining Method of RCFA Paths from Web Logs.....  | XU Xiao-dong, LI Ke, ZHU Shi-rui(55)                    |
| Test Cases Generation Based on UML Sequence Diagram.....  | LI Zhi-qiang, SHAO Pei-nan, ZHU Hui(58)                 |
| Association Rules Mining Algorithm Based on Position Index Matrix.....                                | YUE Hai-tao, LI Jie, XIAO Lin-lin(61)                   |
| Novel Multi-document Summarization Method Based on Spectral Clustering.....                           | LIN Li, HU Xia, ZHU Jun-yan(64)                         |
| Apriori Optimization Algorithm Based on Equivalence Class.....  | YU You-guang, ZHONG Zi-fa, MA Jie(66)                   |
| Value Range Analysis of Executable Code Based on Abstract Interpretation.....                         | DOU Zeng-jie, WANG Zhen-yu, YAO Wei-ping, et al(69)     |
| Completeness Proof and Implementation of Parallel k-means Clustering Algorithm.....                   | TAO Ye, ZENG Zhi-yong, YU Jian-kun, et al(72)           |
| Web Text Mining and Information Retrieval Based on Ontology.....                                      | AI Wei, SUN Si-ming, ZHANG Feng(75)                     |
| Application of XML Data Exchange in Office Redevelopment.....   | SANG Yin-bang, WANG Cheng-liang(78)                     |
| Study on Mass Chinese Short Message Text Density Clustering.....                                      | ZHOU Hong, LIU Jin-ling(81)                             |
| Recognition Method for External IM User Based on Secondary Mining.....                                | WANG Bin(83)  |
| Mining Method of Data Stream Maximum Frequent Itemsets.....   | ZHANG Yue-qin, CHEN Dong(86)                            |
| Data Schedule Strategies Based on Request Response Control Mechanism.....                             | HUANG Peng-hui, WANG Juan, ZHU Yan-qin, et al(88)       |
| Energy-efficient Route Finding Mechanism Based on Directional Antenna in Wireless Sensor Network..... | YANG Guang-song, GENG Xu(91)                            |
| Description and Improvement for CR Spectrum Handoff Based on Channel Reservation Mechanism.....       | ZHANG Wei-wei, ZHAO Zhi-jin, WANG Hai-quan(94)          |
| MANET IP Allocation Method Based on Buddy Chain.....  | XU Qi, ZHANG Wei, ZHOU Yuan, et al(97)                  |
| Research and Improvement of MAC Unfairness in Ad hoc Network.....                                     | TANG Yong, ZHOU Man-yuan(100)                           |
| Study of AODV Energy Strategy.....  | PAN Yun-xia, JI Chang-peng(103)                         |
| Performance Analysis of MT-MFSK Signals in Nakagami Channels.....                                     | LIU Li-qin, WANG Bao-yun, ZHANG Li(106)                 |
| ROE-based Light Weight Route Optimization Strategy for PMIPv6.....                                    | LI Zhan-bo, WANG Li-ming, WANG Xue-yuan(108)            |
| Balance Mechanism on Free-rider in P2P Network.....   | LI Yu-jing, LIU Yu-hua, XU Kai-hua, et al(111)          |
| Optimized Link State Forecast Routing Protocol.....   | LIU Wei, ZHANG Ke, ZHANG Wei, et al(113)                |
| Local Routing Maintenance Mechanism Supporting Mobile Sink.....                                       | TANG Yun-jian, SHI Wei-ren, YI Jun, et al(116)          |
| Improved BLUE Algorithm for Fast Stabilizing Queue.....   | WANG Yang, ZHANG Tao, ZHANG Jun(119)                    |
| Improved Conference Key Distribution Scheme.....  | LIU Yi-ning, CAO Jian-yu, YE Jun, et al(122)            |
| Information Security Risk Assessment Based on WNN and EGA.....  | LIU Ming-sheng, SUN Shu-jing(125)                       |
| Oversized Cryptography Attack Detection Algorithm Based on SOAP Message.....                          | GAO Wen-jie, ZHAO Feng-yu(129)                          |
| Simple Multi-secret Sharing Scheme.....   | HUANG Mei-juan, HU Jiang-hong, ZHANG Jian-zhong(132)    |
| Detection Algorithm for Firewall Policy Based on LE-Trie.....   | LIANG Jian-wu, LONG Xiao-mei, LIU Jun-jun(134)          |
| AODV Security Improvement of Identity-based Cryptosystem.....   | LUO Zhao-long, PEI Ting-rui, SU Jie, et al(137)         |

|   |   |
|---|---|
| Research of Cross-domain Security Access Technology for Wind Turbine.....                                 | LI Yi(140)  |
| Dynamic Threshold Multi-group-secret Sharing Scheme.....  | QIAO Xiao-lin, ZHANG Jian-zhong(143)                  |
| Analysis of Digital Signature Scheme Based on NTRU.....   | PAN Yan-feng(145)                                     |
| Application of Level-line in Semi-fragile Digital Watermark.....  | ZHANG Ming-xun, ZHANG Dan, JIANG Jie(147)             |
| Security Quantification Method for Intrusion Tolerance Systems Based on Continuous Time Markov Chain..... | YANG Tian-yang, HUANG Jian-hua(150)                   |
| Research on Attack to WEP Protocol.....   | LIU Yong-lei, JIN Zhi-gang(153)                       |
| Reversible and Blind Database Watermark Algorithm Based on Polar Angle Expansion.....                     | TAO Wei-cheng, LI Zhi-yong, LI Hou-fu(155)            |
| Research on Immunization Strategy for Weighted Scale-free Network.....                                    | LI Tian-hua, ZOU Yan-li, TANG Xian-jian, et al(158)   |
| Improved AC_BMH Algorithm in Intrusion Detection System.....  | MENG Qing-duan, LV Dong-wei, LIANG Zu-hua(160)        |
| Analysis of Windows 7 Secure Boot Technology.....   | JIANG Yi-ming, LIU Sheng-li(163)                      |
| Establishment of Dynamic K Layers Features Model Library Based on NetFlow.....                            | ZHENG Jian-zhong, ZHOU Shi-jie, WANG Juan(165)        |
| Deterministic Packet Marking Scheme Based on Cross-regional Tracking.....                                 | XU Jin-song, HUANG Ru-cheng, HUANG Wan-ming(168)      |
| Association Rules Algorithm of Intrusion Record Based on Cluster Matrixes.....                            | PENG Jian, WANG Xiao-ling(170)                        |
| Application of Multi-Species Coevolutionary Algorithm in Economic Dispatch.....                           | WU Ying-bin, MENG Xian-ming, CHEN Han-ning(173)       |
| Influence of Data Normalization Methods on K-Nearest Neighbor Classifier.....                             | CAI Wei-ling, CHEN Dong-xia(175)                      |
| Rough Subspace Ensemble Based on Dynamic Weighting.....   | OU Ji-shun, ZHU Yu-quan, CHEN Geng, et al(178)        |
| Money Laundry Risk Evaluation Method Based on Multi-level Neural Network.....                             | XU Lin-jun, YANG Jian-gan(181)                        |
| Feature Selection Method Based on Association Analysis for Text Classification.....                       | ZHANG Biao, LIU Gui-quan(184)                         |
| Software Reliability Model Base on Improved Neural Network.....   | XIONG Xiao-jun, MEI Deng-hua(187)                     |
| Improved Scratch Detection Based on Spatial Feature.....  | ZHANG Li-ping, ZHANG Hong-ying, WU Bin(190)           |
| Solution of Inverse Kinematics Based on Immune RBF Neural Network.....                                    | WEI Juan, YANG Hui-xian, XIE Hai-xia(192)             |
| Application of SA-SVR in Mobile Communication Traffic Forecasting.....                                    | TAN Yan-feng, JIA Zhen-hong, QIN Xi-zhong, et al(195) |
| Minimum Weight Triangulation Solving Based on Ant Colony Algorithm.....                                   | LI Mu-zi, YAN Jian-hua, GUO Hai-tao, et al(197)       |
| Feature Analysis of Tumors Boundary Structure Irregularity Based on Multi-scale.....                      | QIN Bo, MA Li(200)                                    |
| Text Classification Method Combining CTM and SVM.....   | WANG Yan-xia, DENG Wei(203)                           |
| Pedestrian Fast Detection Based on Histograms of Oriented Gradient.....                                   | YE Lin, CHEN Yue-lin, LIN Jing-liang(206)             |
| Noise Reliability Filtering Based on Quantum Measurement Operator.....                                    | LIANG Xi-teng, WANG Jia-hai(208)                      |
| Improved Image Interpolation Algorithm of Walsh Filter.....   | XI Ji, ZHAO Xiao-ling, ZHANG Yu-dong(211)             |
| Object Extraction Method Based on Graph Cuts and Improved Level Set.....                                  | WANG Xiao-fei, GUO Min, XU Qiu-ping(214)              |
| High-dynamic Images Composition of Objects Without Color Based on Multiple-channel Images.....            | HANG Tian, JIANG Xing-zhi, ZHAO Yu-ming(217)          |
| Texture-preserving Shadow Removal from Single Image.....  | CHEN Ji-guo, SHEN Chao-min(219)                       |
| PID Control-based Adaptive Media Playout Algorithm.....   | HE Fei, YANG Jian, XI Hong-sheng, et al(222)          |
| Video Information Hiding Algorithm Based on Two-dimensional Mapping Relationship.....                     | LIU Zheng-yan, LI Xu, CHEN Yun(225)                   |
| Video Tracking Algorithm of Particle Filtering Based on Multi-feature Fusion.....                         | LIU Yi-ming, ZHOU Shang-bo(228)                       |
| Fast Detection Algorithm for Video Rigid Moving Object.....   | ZHOU Wen-ling, QUAN Hong-yan, GUO Yi-jiang(231)       |
| Scheme of Control System in Half-physical Simulation Comprehensive Test-bed.....                          | DU Ya-juan(233)                                       |
| Design of Convolver with Area and Power Optimization.....   | CHEN Chen, CHEN Yun, ZENG Xiao-yang(236)              |
| Laser Three-dimension Carving Control System Based on USB Bus.....  | ZHAO Yong-li, YANG Yin-hua, WANG Hong(239)            |
| New NoC Architecture Based on Virtual Output Queue.....   | ZHOU Sheng, PAN Yun, DING Yong, et al(242)            |
| Design of Document Processing Engine in FTP Server Hub.....   | NIE Yan-feng, PENG Xiang-jun, XU Xian-chao(245)       |
| Recommendation Model Based on Blending Recommendation Technology.....                                     | ZHANG Chi, CHEN Gang, WANG Hui-min(248)               |
| Impact of Topology on Dynamic Growing Complex Networks.....   | JIANG Chang-hua, REN Qing-sheng(251)                  |
| Safety Schedule Algorithm Based on Mixed Priority.....  | WAN Ming, ZHANG Feng-ming, FAN Xiao-guang(254)        |
| Improved PFP Model for AS Level Dynamic Topology.....   | GAO Fei, HUANG Liang-bin(256)                         |
| Automatic Subscription Decomposition Method Supporting Semantic Equivalence.....                          | LAI Jin-ying, XU Yin-cheng, YIN Jian-wei, et al(259)  |
| Research of Network on Chip Mapping Based on Genetic and Ant Colony Algorithm.....                        | LIU Yan-hua, LIU Jing, LAI Zong-sheng, et al(262)     |
| Product Configuration Model Based on Ontology for Mass Customization.....                                 | SHAN Mi-yuan, SONG Ze-yu, HUANG Jing(265)             |
| Research of CAPP Service Based on SaaS.....   | YE Li-na, LIN Lan-fen(268)                            |
| Top-N Retrieval of Digital Resource Based on Metadata Semantics Model.....                                | XU He-xiang, ZHANG Shi-ming(272)                      |
| Tourism Domain Ontology Construction Based on e-Connections.....  | LI Pu, SHI Ya-xian, JIANG Yun-cheng(274)              |
| Automatic Generation of Road Meteorological Graphic and Text Based on GIS.....                            | WU Huan-ping, WEI Jin-chao, ZHAO Lin-na, et al(277)   |
| Chessboard Corner Matching Algorithm Based on Voronoi Diagram.....  | WANG Jian-tao, YANG Xu-bo(280)                        |
| Hardware Task Schedule Algorithm for Reconfigurable Computing.....  | LI Wen-jun, HANG De-quan, ZHANG Guo(283)              |
| Three-leaf Rose Dynamic Fireworks Simulation Based on Particle System.....                                | HU Wen-ping, WANG Ji-wen(286)                         |
| Application of Received Signal Strength Indicator in RFID Reader.....                                     | DUAN Pu, LIU Chun-jiang, WU Yue-shan(289)             |
| Analysis of PageRank Algorithm and Its Improvement.....   | WANG De-guang, ZHOU Zhi-gang, LIANG Xu(291)           |