

计算机工程(半月刊)

Jisuanji Gongcheng

第37卷 第9期 2011年5月5日

目 次

• 博士论文 •

基于三维模型的人脸姿态估计方法.....	曾慧, 穆志纯, 袁立(1)
基于语句节奏特征的作者身份识别研究.....	王少康, 董科军, 阎保平(4)
靶场光测图像小目标中轴线提取方法.....	王鲲鹏, 张小虎, 于起峰(6)
GPU 加速的二维地震波场模拟研究.....	王占刚, 苑春方(9)
基于逻辑回归的客户稳定度建模.....	彭凯, 秦永彬, 许道云(12)
基于短语的汉维维汉统计机器翻译.....	董兴华, 周俊林, 郭树盛, 等(16)
PPK 模型下的有序多重数字签名方案.....	马昌社(19)
基于加权欧式算子的射频识别定位算法.....	史伟光, 刘开华, 于洁潇, 等(22)
一种路径测试数据自动生成方法.....	曹洋, 胡春华, 陈少波, 等(25)
基于改进 PSO 算法的随机投入产出模型.....	王峰, 李树荣(29)

• “核高基”专题 •

反馈式编译在循环级性能分析中的应用.....	郝云龙, 赵荣彩, 侯永生, 等(32)
AUTOSAR OS 调度表同步的优化设计.....	王林, 余庆, 张激, 等(35)
出口分支语句的向量化方法.....	朱嘉凤, 赵荣彩, 侯永生, 等(38)
基于龙芯的软件层动态变频研究与实现.....	顾丽红, 林志强, 吴少刚(41)
嵌入式浏览器 CSS 引擎的研究与改进.....	刘剑, 桑楠, 郭文生(44)
带控制流的静态函数调用分析方法.....	陈忠湘, 詹瑾瑜, 郝宗波(47)
AUTOSAR 通信模块的设计与实现.....	余庆, 张晓先, 戴柔逸(51)
OSEK 操作系统一致性测试用例的生成.....	李锐, 王三宏, 范德全, 等(54)
一种安全操作系统风险评估模型.....	邓平, 范科峰, 张素兵, 等(57)
嵌入式操作系统进程监测器的设计与实现.....	刘道宏, 雷航, 郭文生(59)
符合 AUTOSAR 规范的底层驱动软件开发.....	王安军, 蒋建春, 陈培然(62)

• 软件技术与数据库 •

RDF(S)模型到关系数据库模式的转换.....	吕艳辉(65)
基于聚类优化的 Web 服务发现方法.....	徐小良, 陈金奎, 吴优(68)
基于 QWS 的 Web 服务集消减算法.....	刘冬, 钱俊彦, 介颂园, 等(71)
改进的数据流频繁项集挖掘算法.....	刘洁, 杨路明, 毛伊敏, 等(75)
基于频繁模式树的约束最大频繁项集挖掘算法.....	花红娟, 张健, 陈少华(78)
多值属性关联规则挖掘的 Q-Apriori 算法.....	姜丽莉, 孟凡荣, 周勇(81)
多因素时间序列 Skyline 的快速查询算法.....	金鑫(84)
基于持久化 X-Machine 的 SaaS 测试.....	曹阳, 宋连春, 王盈(87)
基于 AOV 网的抽象工作流模型.....	陈谊, 新吉乐, 孙悦红, 等(90)
改进的 SOD 孤立点检测算法.....	刘文远, 张亮, 孙德杰, 等(93)
基于相似系数和的协同设计多版本存储优化.....	刘峰, 王越(95)
基于谱约束的随机化社会网络多点扰动方法.....	强小强, 何小卫, 韩建民, 等(98)
面向联盟定制的产业链协同平台演化技术.....	王淑营(101)
基于关联规则的决策树算法.....	汪海锐, 李伟(104)
一种基于 DSL 的服务组合语言.....	胡海涛, 刘颖(107)
基于构件行为聚类的软件工程知识分类.....	万年红, 谭文安, 王雪蓉(110)
基于 Struts 和 Hibernate 的 Web 应用开发.....	王海涛, 贾宗璞(112)
小世界网络的知识转移行为仿真分析.....	杨波(115)

• 网络与通信 •

基于流量调度的多链路负载均衡算法.....	梁本来, 杨忠明, 邓家斌, 等(118)
无线传感器网络中的查询合井算法.....	徐敬东, 孔建楠, 李晓宇(121)
一种基于分群的移动自组网多播路由协议.....	袁勇, 邹力鹏(124)
移动自组网接入互联网的网关协作模型.....	黄婷婷, 张振宇(127)
基于时间阈值丢包率估计的网络断层扫描技术.....	吴辰文, 闫毅郎, 王维(130)
混合异构网络中改进的 TFRC 机制.....	何利, 鲜永菊, 司伟(133)
基于单元树结构的广度优先 P2P 搜索算法.....	鄢靖丰, 陶少华, 夏方玉(135)

无线传感器网络中的目标关联覆盖算法	孙泽宇, 邢萧飞, 魏巍(138)
基于 QCI 优先级的分组调度算法	姚丹, 崔维嘉, 季仲梅(141)
基于网格的无线传感器网络节能路由算法	李莎, 刘三阳, 冯海林(144)
MANET 中基于鲁棒度的 IDS 分簇方案	李佩, 姚国祥(147)
WSN 中基于区间小波的偶合数据压缩算法	程剑, 李平, 朱海荣(150)
· 安全技术 ·	
可追踪签名者身份的匿名代理签名方案	姜东焕, 徐光宝(153)
基于博弈理论的计算机病毒传播模型	金聪, 谈华永, 王晓燕(155)
基于 RBF 神经网络的一次性口令认证方案	方俊, 赵英良(157)
基于超椭圆曲线的顺序多重盲签名	陈逢林, 胡万宝, 孙广人(160)
一种无证书签密方案的安全性分析	宋明月, 张彰, 谢文坚(163)
基于数字水印的点对点流媒体内容保护	缪一心, 杨明(165)
基于生物特征的可变角色用户认证机制	刘雪艳, 张强(168)
异构无线融合网络统一接入认证研究	杨欣, 季新生, 林勇强(171)
外包数据库的安全访问控制机制	麻浩, 王晓明(173)
参与者有权重的多等级秘密共享方案	乔晓林, 张建中(176)
基于模糊逻辑分类的 WSN Sinkhole 侦测	高建斌, 娄渊胜(178)
· 人工智能及识别技术 ·	
基于频谱分析的串联重复序列识别方法	聂俊岚, 毛伟伟, 王常武, 等(181)
基于多级滤波器的蛋白质热点区域预测	刘文远, 王东伟, 王常武, 等(184)
基于 Gamma 小波模型的网络流量预测	孙勇, 白光伟, 赵露(187)
一种基于接种疫苗的克隆选择算法	方贤进, 李龙澍, 钱海(190)
维吾尔语 CVC 型音节韵律特征声学分析	热娜吉丽·达古提, 艾斯卡尔·艾木都拉, 地里木拉提·吐尔逊(193)
一种新型 GVF-Snake 模型	杜海龙, 吴锡生(196)
基于 k-最近邻图的小样本 KNN 分类算法	刘应东, 牛惠民(198)
基于多值分类 SVM 的电梯交通模式识别	秦臻, 赵建勇, 严义(201)
Agent 劝说中的积极舆论模型及其评价	伍京华, 孙华梅, 张新刚, 等(204)
工程图中明细表标题栏线框图形的智能识别	刘英, 尚文利, 张嘉易(207)
基于随机集的合成信息系统粗集模型	邱卫根, 胡志斌(210)
智能规划中的动作互斥编码方式研究	杨超, 吕帅, 刘磊, 等(213)
基于拉普拉斯特征映射的仿射传播聚类	张亮, 杜子平, 张俊, 等(216)
基于 ICA 特征的运动阴影检测算法	裴立志, 王润生(218)
基于运动特征的颜色粒子滤波器	蒋斐, 程玉宝, 李宏斌(221)
组合型人眼识别方法及其应用	张歌平, 丁志刚, 彭娟春(223)
· 图形图像处理 ·	
多指标融合的指纹图像质量评测方法	刘莲花, 谭台哲(226)
基于 DCT 系数误差的图像质量评价模型	郑江云, 江巨浪, 李强(229)
改进的逆向组合算法在图像配准中的应用	殷莹, 桑庆兵(231)
图像去噪中的有限元求解方法	闵涛, 黄娟(234)
基于质量评价量和方差分析的图像篡改检测	周治平, 张小祥(236)
基于图像质量等级的自动目标识别效果评估	秦富童, 岳丽华, 万寿红(239)
· 工程应用技术与实现 ·	
基于 WinCC 的整备作业安全监控系统	孟建军, 李德仓, 段丽霞, 等(242)
智能手机碰撞检测及在汽车事故自救中的应用	李伟健, 林亚平, 叶松涛(245)
Ad Hoc 网络通信协议的设计与实现	戴志诚, 刘三妍, 陈增照(248)
网络处理器路由表同步机制的研究与实现	武凌(251)
一种多核远程重构控制器的设计与实现	朱丹, 王家宁, 朱筠骅(254)
· 开发研究与设计技术 ·	
数据链对现代空-空作战效能的影响分析	夏白桦, 周于义(257)
一种 AVS-M 运动搜索快速算法	张新安, 宫彦军, 陈爱武, 等(260)
用于心电波形分析的相似性度量策略	练仕榴, 郑刚, 牟善玲(263)
一种连续 LBS 请求下的位置匿名方法	杨磊, 魏磊, 叶剑, 等(266)
改进的基本密度的航迹聚类算法	赵恩来, 郝文宁, 赵飞, 等(270)
LBS 图形文件组织与传输方法研究	徐财福, 刘厚泉, 谢婧, 等(273)
改进型 LLR BP 译码算法研究	侯宁(276)
一种电子装备故障预测参数选取方法	方甲永, 肖明清, 李斌, 等(279)
Turbo 译码的自适应迭代停止算法	王艳岭, 达新宇(282)
新型双重混合的流媒体直播系统架构	黄思嘉, 吕智慧, 吴杰(284)
列车运行调度的现状及展望	周永华, 王朋, 吴品, 等(288)
四边形网格生成中的前沿边生长改进算法	陈阳, 崔汉国, 刘健鑫, 等(291)

Computer Engineering (Semimonthly)

Vol.37 No.9

5 May 2011

Contents

Face Pose Estimation Method Based on 3D Model.....	ZENG Hui, MU Zhi-chun, YUAN Li(1)
Research on Authorship Identification Based on Sentence Rhythm Feature.....	WANG Shao-kang, DONG Ke-jun, YAN Bao-ping(4)
Extraction Method of Small Target Axes in Optical Measurement Images of Shooting Range.....	WANG Kun-peng, ZHANG Xiao-hu, YU Qi-feng(6)
Research on GPU Accelerated 2D Seismic Wave Modelling.....	WANG Zhan-gang, YUAN Chun-fang(9)
Customer Stability Modeling Based on Logistic Regression.....	PENG Kai, QIN Yong-bin, XU Dao-yun(12)
Phrase-based Chinese-Uyghur/Uyghur-Chinese Statistical Machine Translation.....	DONG Xing-hua, ZHOU Jun-lin, GUO Shu-sheng, et al(16)
Ordered Digital Multi-Signature Scheme in Plain Public Key Model.....	MA Chang-she(19)
RFID Location Algorithm Based on Weighted Euclidean Operator.....	SHI Wei-guang, LIU Kai-hua, YU Jie-xiao, et al(22)
Data Automatic Generation Approach for Path Test.....	CAO Yang, HU Chun-hua, CHEN Shao-bo, et al(25)
Stochastic Input-Output Model Based on Improved PSO Algorithm.....	WANG Feng, LI Shu-rong(29)
Application of Feedback-directed Compiling in Loop-level Performance Analysis.....	HAO Yun-long, ZHAO Rong-cai, HOU Yong-sheng, et al(32)
Optimization Design of Schedule Table Synchronization in AUTOSAR OS.....	WANG Lin, SHE Qing, ZHANG Ji, et al(35)
Vectorization Method of Export Branch Statement.....	ZHU Jia-feng, ZHAO Rong-cai, HOU Yong-sheng, et al(38)
Research and Implementation of Software Layer Dynamic Frequency Scaling Based on Loongson.....	GU Li-hong, LIN Zhi-qiang, WU Shao-gang(41)
Research and Improvement of CSS Engine in Embedded Browser.....	LIU Jian, SANG Nan, GUO Wen-sheng(44)
Method for Static Function Call Analysis with Control Flow.....	CHEN Zhong-xiang, ZHAN Jin-yu, HAO Zong-bo(47)
Design and Implementation of AUTOSAR Communication Module.....	SHE Qing, ZHANG Xiao-xian, DAI Rou-yi(51)
Generation of Conformance Test Cases for OSEK Operating System.....	LI Rui, WANG San-hong, FAN De-quan, et al(54)
Risk Assessment Model of Security Operating System.....	DENG Ping, FAN Ke-feng, ZHANG Su-bing, et al(57)
Design and Implementation of Process Inspector for Embedded Operating System.....	LIU Dao-hong, LEI Hang, GUO Wen-sheng(59)
Device Driver Software Development According with AUTOSAR Specification.....	WANG An-jun, JIANG Jian-chun, CHEN Pei-ran(62)
Conversion of RDF(S) Model to Relational Database Schema.....	LV Yan-hui(65)
Web Service Discovery Method Based on Clustering Optimization.....	XU Xiao-liang, CHEN Jin-kui, WU You(68)
Web Service Set Reduction Algorithm Based on Quality of Web Service.....	LIU Dong, QIAN Jun-yan, JIE Song-yuan, et al(71)
Improved Mining Algorithm for Frequent Closed Itemsets of Data Stream.....	LIU Jie, YANG Lu-ming, MAO Yi-min, et al(75)
Mining Algorithm for Constrained Maximum Frequent Itemsets Based on Frequent Pattern Tree.....	HUA Hong-juan, ZHANG Jian, CHEN Shao-hua(78)
Q-Apriori Algorithm of Multivalue Attribute Association Rules Mining.....	JIANG Li-li, MENG Fan-rong, ZHOU Yong(81)
Fast Query Algorithm of Multi Factor Timed Skyline.....	JIN Xin(84)
SaaS Test Based on Durable X-Machine.....	CAO Yang, SONG Lian-chun, WANG Ying(87)
Abstract Workflow Model Based on AOV Network.....	CHEN Yi, XIN Ji-le, SUN Yue-hong, et al(90)
Improved SOD Outlier Detection Algorithm.....	LIU Wen-yuan, ZHANG Liang, SUN De-jie, et al(93)
Multi-version Storage Optimization of Collaborative Design Based on Similar Coefficient Sum.....	LIU Feng, WANG Yue(95)
Multi-point Disturbance Method of Randomization Society Network Based on Spectrum Constraint.....	JIANG Xiao-qiang, HE Xiao-wei, HAN Jian-min, et al(98)
Evolution Technology for Alliance Customization Oriented Collaborative Platform of Industrial Chain.....	WANG Shu-ying(101)
Decision Tree Algorithm Based on Association Rules.....	WANG Hai-nui, LI Wei(104)
Service Composition Language Based on DSL.....	HU Hai-tao, LIU Ying(107)
Software Engineering Knowledge Classification Based on Component Behavior Clustering.....	WAN Nian-hong, TAN Wen-an, WANG Xue-rong(110)
Web Application Development Based on Struts and Hibernate.....	WANG Hai-tao, JIA Zong-pu(112)
Simulation Analysis of Knowledge Transfer Behavior Based on Small World Network.....	YANG Bo(115)
Load Balance Algorithm of Multiple Links Based on Traffic Schedule.....	LIANG Ben-lai, YANG Zhong-ming, DENG Jia-bin, et al(118)
Query Aggregation Algorithm in WSN.....	XU Jing-dong, KONG Jian-nan, LI Xiao-yu(121)
Clustering Based Multicast Routing Protocol in Mobile Ad Hoc Networks.....	YUAN Yong, ZOU Li-kun(124)
Gateway Cooperative Model for MANET Accessing Internet.....	HUANG Ting-ting, ZHANG Zhen-yu(127)
Network Tomography Technology Based on Time Threshold Loss Rate Estimation.....	WU Chen-wen, YAN Yi-lang, WANG Wei(130)
Improved TFRC Mechanism in Hybrid Heterogeneous Network.....	HE Li, XIAN Yong-ju, SI Wei(133)
Breadth First P2P Search Algorithm Based on Unit Tree Structure.....	YAN Jing-feng, TAO Shao-hua, XIA Fang-yu(135)
Target Association Coverage Algorithm in WSN.....	SUN Ze-yu, XING Xiao-fei, WEI Wei(138)

Packet Schedule Algorithm Based on QCI Priority.....	YAO Dan, CUI Wei-jia, JI Zhong-mei(141)
Energy Efficient Routing Algorithm Based on Grid in Wireless Sensor Networks.....	LI Sha, LIU San-yang, FENG Hai-lin(144)
IDS Clustering Scheme Based on Robust Degree in MANET.....	LI Pei, YAO Guo-xiang(147)
Coincidence Data Compression Algorithm Based on Interval Wavelet in Wireless Sensor Networks.....	CHENG Jian, LI Ping, ZHU Hai-rong(150)
Anonymous Proxy Signature Scheme with Traceable Signer Identity.....	JIANG Dong-huan, XU Guang-bao(153)
Computer Virus Propagation Model Based on Game Theory.....	JIN Cong, TAN Hua-yong, WANG Xiao-yan(155)
One-time Password Authentication Scheme Based on RBF Neural Network.....	FANG Jun, ZHAO Ying-liang(157)
Sequential Blind Multisignature Based on Hyperelliptic Curve.....	CHEN Feng-lin, HU Wan-bao, SUN Guang-ren(160)
Security Analysis of Certificateless Signcryption Scheme.....	SONG Ming-ming, ZHANG Zhang, XIE Wen-jian(163)
Content Protection for Peer-to-Peer Streaming Media Based on Digital Watermark.....	MIAO Yi-xin, YANG Ming(165)
Variable Role User Authentication Mechanism Based on Biometrics.....	LIU Xue-yan, ZHANG Qiang(168)
Research on Unified Access Authentication in Heterogeneous Wireless Convergence Networks.....	YANG Xin, JI Xin-sheng, LIN Yong-qiang(171)
Security Access Control Mechanism of Outsourced Database.....	MA Hao, WANG Xiao-ming(173)
Hierarchical Secret Sharing Scheme Among Weighted Participants.....	QIAO Xiao-lin, ZHANG Jian-zhong(176)
Sinkhole Detection Based on Fuzzy Logic Classification for WSN.....	GAO Jian-bin, LOU Yuan-sheng(178)
Identification Method of Tandem Repeats Based on Spectral Analysis.....	NIE Jun-lan, MAO Wei-wei, WANG Chang-wu, et al(181)
Hot Spots Prediction in Proteins Based on Multi-stage Filter.....	LIU Wen-yuan, WANG Dong-wei, WANG Chang-wu, et al(184)
Network Traffic Prediction Based on Gamma Wavelet Model.....	SUN Yong, BAI Guang-wei, ZHAO Lu(187)
Clonal Selection Algorithm Based on Vaccination.....	FANG Xian-jin, LI Long-shu, QIAN Hai(190)
Acoustic Analysis on Prosodic Feature of CVC Type Syllable in Uyghur Language.....	RANAGUL Dagut, ASKAR Hamdulla, DILMURAT Tursun(193)
New GVF-Snake Model.....	DU Hai-long, WU Xi-sheng(196)
KNN Classification Algorithm Based on k-Nearest Neighbor Graph for Small Sample.....	LIU Ying-dong, NIU Hui-min(198)
Pattern Recognition of Elevator Traffic Mode Based on Multi-value Classification Support Vector Machine.....	QIN Zhen, ZHAO Jian-yong, YAN Yi(201)
Positive Consensus Model and Its Evaluation on Agent Persuasion.....	WU Jing-hua, SUN Hua-mei, ZHANG Xin-gang, et al(204)
Intelligent Recognition of Frame Graphic for Title Panel and Title Block in Engineering Drawing.....	LIU Ying, SHANG Wen-li, ZHANG Jia-yi(207)
Rough Set Models of Combined Information Systems Based on Random Sets.....	QIU Wei-gen, HU Zhi-bin(210)
Research on Action Mutex Encoding Methods in Intelligent Planning.....	YANG Chao, LV Shuai, LIU Lei, et al(213)
Affinity Propagation Clustering Based on Laplacian Eigenmaps.....	ZHANG Liang, DU Zi-ping, ZHANG Jun, et al(216)
Moving Shadow Detection Algorithm Based on ICA Feature.....	PEI Li-zhi, WANG Run-sheng(218)
Color Particle Filter Based on Motion Feature.....	JIANG Fei, CHENG Yu-bao, LI Hong-bin(221)
Integrated Method for Eye Recognition and Its Application.....	ZHANG Ou-ping, DING Zhi-gang, PENG Juan-chun(223)
Fingerprint Image Quality Evaluation Method with Multi-index Integration.....	LIU Lian-hua, TAN Tai-zhe(228)
Image Quality Assessment Model Based on DCT Coefficient Error.....	ZHENG Jiang-yun, JIANG Ju-lang, LI Qiang(229)
Application of Improved Inverse Compositional Algorithm in Image Registration.....	YIN Ying, SANG Qing-bing(231)
Finite Element Solving Method of Image Denoising.....	MIN Tao, HUANG Juan(234)
Image Splicing Detection Based on Quality Metrics and Analysis of Variance.....	ZHOU Zhi-ping, ZHANG Xiao-xiang(236)
Performance Evaluation of Automatic Target Recognition Based on Image Quality Level.....	QIN Fu-tong, YUE Li-hua, WAN Shou-hong(239)
Servicing Work Safety Monitoring System Based on WinCC.....	MENG Jian-jun, LI De-cang, DUAN Li-xia, et al(242)
Shock Detection with Smart Mobile Phone and Its Application in Car Accident Self-rescue.....	LI Wei-jian, LIN Ya-ping, YE Song-tao(245)
Design and Implementation of Communication Protocol in Ad Hoc Network.....	DAI Zhi-cheng, LIU San-ya, CHEN Zeng-zhao(248)
Research and Implementation of Network Processor Routing Table Synchronization Mechanism.....	WU Ling(251)
Design and Implementation of Multi-core Remote Reconfigurable Controller.....	ZHU Dan, WANG Jia-ning, ZHU Yu-hua(254)
Influence Analysis of Data Link on Modern Air-Air Combat Effectiveness.....	XIA Bai-hua, ZHOU Yu-yi(257)
Fast Algorithm for AVS-M Motion Search.....	ZHANG Xin-an, GONG Yan-jun, CHEN Ai-wu, et al(260)
Similarity Measurement Strategie for ECG Waveform Analysis.....	LIAN Shi-liu, ZHENG Gang, MOU Shan-ling(263)
Location Anonymity Method for Continuous LBS Requests.....	YANG Lei, WEI Lei, YE Jian, et al(266)
Improved Track Clustering Algorithm Based on Density.....	ZHAO En-lai, HAO Wen-ning, ZHAO Fei, et al(270)
Organization and Transmission Method Research of Graphic Document in Location Based Service.....	XU Cai-fu, LIU Hou-quan, XIE Jing, et al(273)
Research on Modified LLR BP Decoding Algorithm.....	HOU Ning(276)
Prognostics Parameter Selection Method of Electronic Equipment Fault.....	FANG Jia-yong, XIAO Ming-qing, LI Bin, et al(279)
Adaptive Iterative Stopping Algorithm for Turbo Decoding.....	WANG Yan-ling, DA Xin-yu(282)
Novel Double Hybrid Architecture of Live Video Streaming System.....	HUANG Si-jia, LV Zhi-hui, WU Jie(284)
Status Quo and Prospect About Train Operation Scheduling.....	ZHOU Yong-hua, WANG Peng, WU Pin, et al(288)
Improved Algorithm for Advancing Front Growth in Quadrilateral Mesh Generation.....	CHEN Yang, CUI Han-guo, LIU Jian-xin, et al(291)