

2009 4th International Conference on Computer Science & Education

(ICCSE 2009)

**Nanning, China
25-28 July 2009**

Pages 1-664



**IEEE Catalog Number: CFP0989F-PRT
ISBN: 978-1-4244-3520-3**

Table of Contents

Welcome Message

Conference Organization

Session 1: Artificial Intelligence

Research of Intelligence Control Based on Knowledge-increasable Neural Network Group	3
<i>LV Jin, ZHAO Xiang-mo and GUO Chen</i>	
Complex Cepstrum Based Single Channel Speech Dereverberation.....	7
<i>Shen Xizhong and Meng Guang</i>	
A Novel Smooth Support Vector Machines for Classification and Regression	12
<i>Jianmin Dong and Ruopeng Wang</i>	
Efficient Face Recognition With Variant Pose And Illumination In Video.....	18
<i>Yi Dai, Guoqiang Xiao and Kaijin Qiu</i>	
A Novel Anti-windup Compensator Based on Fuzzy Logic.....	23
<i>Lin Guohan, Wang Yingxu and Huang feng</i>	
Research And Application Of A Multi-Ant Colony Clustering Combination Algorithm.....	27
<i>Wei xianmin</i>	
Memory Effect in DBSCAN Algorithm	31
<i>LI Jian, YU Wei and YAN Bao-Ping</i>	
Improved Fingerprint Thinning Algorithm Based On Directional Images	37
<i>Yang Fan and Li Nan</i>	
The Research and Implementation of Virtual Laboratory based on Web in Distance Education	40
<i>Zhao Ya, Liu Xianmei and Wu Qiong</i>	
A Noise-Resistant Fuzzy Kohonen Clustering Network Algorithm for Color Image Segmentation	44
<i>Bosheng Lu, Yuke Wei and Jiangping Li</i>	
Hybrid Genetic Algorithm Optimization on Steering Trapezoid Linkage of Linkage of Vehicle	49
<i>Xi Pingyuan and Wang Cheng</i>	
PSO-based Neural Network Model for Teaching Evaluation	53
<i>Changjun Zhu and Xiujuan Zhao</i>	
Research on Optimal Operation of Multipurpose Reservoirs: Theory and Application	56
<i>Xingju Wang, Ranhang Zhao, Yuwei HAO and Xiaolei Lu</i>	
Empirical Analysis On The Development Level Of Regional Finance In China	62
<i>LEI Hong</i>	
Gesture Recognition Model Based on 3D Accelerations.....	66
<i>KONG Jun-qi, WANG Hui and ZHANG Guang-quan</i>	
Traveling-Salesman Competition with Multiple Agents and Simultaneous Move Search Algorithm	71
<i>Nobuhiro Tomabechi and Yoshichika Fujioka</i>	
Application of the Swarm Intelligence in the Organization Of Agricultural Products Logistics.....	77
<i>Yao Xinsheng, Xu Guangyin, Cui Yan, Fan Shasha and Wei Jianguang</i>	
Research on Submarine Counter-detection Probability by Threat Surface Ship Sonar.....	81
<i>Tang Zhiyin and He Lin</i>	
A New Method for Texture Classification and Its Application in Texture Synthesis.....	86
<i>Lulu Pan, Guohua Peng, Zhenglin Ye, Weidong Yan and Xiaohong An</i>	
The Research of Applying Neural Network to the Vehicles Equipment Performance and Cost Trade-off Analysis.....	92
<i>Ye Yonglin, Yang qi, Zheng Hanyue and Yang xueqiang</i>	
Laser Underwater Target Detection Based on Gabor Transform.....	95
<i>Yang Shubin and Peng Fuyuan</i>	
A Modified Motion Detection Algorithm In Complex Background	98
<i>Zhen Yu and Zhen Wei</i>	
Personal Credit Rating Using Artificial Intelligence Technology for the National Student Loans.....	103
<i>Hu Jian</i>	
On Integrated Model for Image Filtering and Segmenting Based on Structure Statistic of Decomposable Markov Network.....	107
<i>Cao Jiannong and Fang Yong</i>	

EDA-Based Optimal Gabor Kernel's Scale and Orientation Selection for Facial Expression Recognition.....	113
<i>Zheng Qiumei, Lv Xinghui and Shi Gongxi</i>	
A Research on Facial Animation Driven by Emotional Speech.....	118
<i>Li Lixiang</i>	
Research on Automatic Classification of Agricultural Products Information Based on Neural Network	122
<i>Wei Yapeng, Liu Xuning, Zhang Haichun, Shi Wei, Zhao Ming and Li Shuang</i>	
An Improved ID3 Decision Tree Algorithm.....	127
<i>Chen Jin, Luo Delin and Mu Fenxiang</i>	
An Improved Greedy Algorithm for Rectangles Packing Problem.....	131
<i>Gu Pingping, Dong Huailin and Zheng Yuhui</i>	
An Efficient Ant Colony Algorithm for QoS Anycast Routing	135
<i>Xiao Meng and Li Taoshen</i>	
Study of Distribution Center Location Based on Improved Particle Swarm Optimization.....	139
<i>Chen Qin</i>	
Exponential Stability of Cohen-Grossberg Neural Networks With Delays And Impulses.....	144
<i>Tang Qing, Liu Anping, Li Huijuan and Liu Ting</i>	
Buy-Sell Strategy Model Construction with Hybrid XCS.....	148
<i>Liu Shumei and You Feng</i>	
A Fuzzy Evaluation Method About Facing Distant Intelligent Test.....	154
<i>Zhang meiyu and Jiang rongrong</i>	
Stability Analysis For A Class Of Delay Neural Networks With Nonlinear Perturbations	158
<i>Wang Ruiliang , Wang Jin and Lei Hong</i>	
Extraction of Key Phrases from Document using Statistical and Linguistic analysis.....	161
<i>Satyajeet Raje, Sanket Tulangekar, Rajshekhar Waghe, Rohit Pathak and Parikshit Mahalle</i>	
A Similarity-Based Approach for Ontology Mapping	165
<i>WU Ya Juan, LANG Ji Sheng and SHANG Fu Hua</i>	
Design of Personalized Test Paper Generating System of Educational Telenet Based on Genetic Algorithm.....	170
<i>Yong Ou-Yang and Hong-Fang Luo</i>	
Ontology-based Domain Knowledge Representation	174
<i>SUN Yu and LI Zhiping</i>	
Evolutionary Mechanism and Implementation for Recognition of Objects in Dynamic Vision	178
<i>Sha Sha, Chen Jianer, Qin Ling and Luo Sanding</i>	
Fault Diagnosis for Variable-Air-Volume Systems Using Fuzzy Neural Networks.....	183
<i>Xie Hui, Liu Yan and Li Deying</i>	
A Improved CF Model Base on Normal Distribution and Euclidean Distance.....	189
<i>Zhenpeng Zhan, Beizhan Wang, Liang Shi and Lida Lin</i>	
An Algorithm for Automatic Vehicle Speed Detection using Video Camera	193
<i>Jianping Wu, Zhaobin Liu, Jinxiang Li, Caidong Gu, Maoxin Si and Fangyong Tan</i>	
OQ-Quad: An Efficient Query Processing for Continuous K-Nearest Neighbor Based on Quad Tree.....	197
<i>Yong-Gui Zou and Qing-Lin Fan</i>	
Gait Planning in 3D Robot Simulation using ZMP Theory	203
<i>Yin Zhao, Lin Xiao, Li Wei, Yu Wuyi, Cai Jianhuai and Xin Li</i>	
Model Research and Features Simplification for Scheduling Of Wafer Fabrication System.....	208
<i>Ying Wang, Zhixian Lin and Maoqing Li</i>	
Research on Logistics Distribution Center Location Problem Based on Genetic Algorithm and AHP	213
<i>Li Ji and Dong Huailin</i>	

Session 2: Communications & Networks

The Conditional Diagnosability of Locally Twisted Cubes under the Comparison Model.....	221
<i>ZHOU Shuming</i>	
A Joint Vertical Handover Technique for Heterogeneous Wireless Networks	227
<i>Bo Liu, Jing Wang and Jun Li</i>	
Design of E-Government Broadband IP Network	233
<i>YANG Liuqing, LU Ying and CHEN Hsingbai</i>	
Decoding the (31, 16, 7) Quadratic Residue Code in GF(2 ⁵)	239
<i>Tsung-Ching Lin, Shao-I Chu, Hsin-Chiu Chang and Hung-Peng Lee</i>	
Color Image Hybrid Coding Using Correlation Vectors and SPIHT Algorithm.....	244
<i>Yutuo Chen, Yi Yu and Zhiru Yang</i>	
Research of OFDM Systems Channel Estimation Based on DFT Improved Algorithm.....	250
<i>Xu Yan and Lin Ying</i>	

A New Node Deployment Scheme for Wireless Sensor Networks	254
<i>Gongben Can and Shaorong Wang</i>	
The Design and Realization of Communication Technology for Street Lamps Control System.....	259
<i>Dingfang Liu, Suiping Qi, Tundong Liu, Shou-zhi Yu and Funchun Sun</i>	
Design and Implementation of a Leader Election Algorithm in Hierarchy Mobile Ad hoc Network.....	263
<i>Gang Zhang, Xiaoyan Kuang, Jing Chen and Yu Zhang</i>	
Strategy and Simulation of Trust Cluster Based Key Management Protocol for Ad hoc Networks	269
<i>Li Xu, Xiaoding Wang and Jinbo Shen</i>	
Avoiding Congestion Using RBF-GM Controller for Wireless Sensor Network.....	275
<i>Tang Yifang and Zhong Dafu</i>	
Relative Position Route Protocol of Ad hoc Network.....	279
<i>Li ruimin</i>	
A Graph Based Security Dependency Analysis of Data Communication Networks to Their Topology.....	284
<i>Roja Fouladi, Somayeh Salimi and Ahmad Salahi</i>	
A Novel Joint Centralized Scheduling and Channel Assignment Scheme for IEEE 802.16 Mesh Networks	289
<i>Yuliang Tang, Yan Yao and Jianping Yu</i>	
Improved Fast Handover Scheme for Hierarchical Mobile IPv6.....	294
<i>WU Chen-wen and WANG Ping</i>	
Location Area Planning with Complete Homogenous Traffic.....	298
<i>Li Shuguang and Xin Xiao</i>	
ZigBee Based Wireless Networked Smart Transducer and Its Application in Supervision and Control System for Natural Gas Gate Station	301
<i>Meng Xiangyin, Xiao Shide, Xiong Ying and Huang Huiping</i>	
GSM Network Optimization - Design and Implementation of an Algorithm Dealing with Path Propagation Loss	307
<i>Yun Yang and Jie Zhang</i>	
Simulation Based Analysis of the Performance of Self-similar Traffic.....	312
<i>TAN Xianhai and ZHUO Yiwen</i>	
Research on Mobile Agent Resources Search Applied in P2P Network	317
<i>Wang Chunzhi, LIU Hengfeng, Chen Hongwei and Luo Cong</i>	
A Key Management Scheme for Wireless Sensor Networks Based on Vector Group.....	321
<i>FANG Wangsheng, ZHANG Tao and CHEN Kang</i>	
Research on H.264/SVC Compressed Video Communication in 3G.....	327
<i>Yunpeng Liu, Sanyuan Zhang, Shuchang Xu, Yin Zhang and Yunpeng Liu</i>	
The Analysis of WLAN/3G Interworking Access Based on a Mobility Model.....	333
<i>Roja Fouladi, Somayeh Salimi and Ahmad Salahi</i>	
A Scheme for Reducing Handover and Packet Loss in Heterogeneous Mobile IPv6 Networks	339
<i>Zhao Yujiao and Nie Gang</i>	
An Approach to Analyze Grid Service Reliability Subject to Failures.....	343
<i>Zhang Jin and Gu Jun</i>	
A Cloud Model Based Multi-dimension QoS Evaluation Mechanism for Wireless Sensor Networks.....	348
<i>Liang Junbin, Chen Ningjiang and Yu Minmin</i>	
Research of Image Compression Based on Wireless Visual Sensor Networks.....	353
<i>Zhao Jinchuang, Tan Yan and Fu Wenli</i>	
Design and Implementation of VPN Security Gateway Based on Linux Kernel 2.6.....	357
<i>Li Zhou</i>	
Optimizing QoS Partition based on Threshold-crossing Theory.....	361
<i>Xia Tian and Lu Hong</i>	
An Improved Scheme for Noise Reduction to DCSK Based on its Retransmission Characteristic.....	366
<i>Wang zhenchao and Zhang Shibing</i>	
Study on the Effect of Route Buffer on TCP Congestion Control and Its Improvement	371
<i>Li Shiyin, Huang Yuanjiang, Liu Qiong Chen Deqiang and Qian Jiansheng</i>	
A RDO-PSO Algorithm for Anycast Routing with Multi-QoS Constraints	376
<i>Yang Ming and Li Taoshen</i>	
Study of MA Protection based Extending Inheritance Hierarchy Trees and Time Check	380
<i>Wu Jiehong and Gao Fuxiang</i>	
Ant-like Courseware Lookup in Pervasive Learning	385
<i>Xiao Zheng and Fang Luo</i>	
Study on New GMPLS Technology in Wavelength-Routed Optical Network	391
<i>Ning Zhang and Hong Bao</i>	
Industry Network QoS Approach Based on New Ethernet Standards.....	395
<i>Xu Lei</i>	

A Theoretical Data Management Approach for Sensor Networks	399
<i>Hong Wenxing, Zhu Shunzhi and Li Maoqing</i>	
Cross-Layer Energy Efficiency of Orthogonal Modulations in TDMA-Based Wireless Sensor Networks	404
<i>Wen Huan, Tang Qiuling, Yue Xiuyu and Qin Tuanfa</i>	
Improving Particle Filter with A New Sampling Strategy.....	408
<i>Fasheng Wang and Yuejin Lin</i>	
Lowering the Requirement of Line-speed Processing by Considering Traffic Characteristics	413
<i>Zhang Xiaohui, Zhao Xin and Lv Ping</i>	
Local Optimal Sensor Deployment for Random Field Reconstruction	419
<i>Yang Weng and Hong Wenxing</i>	
A Cross-layer Handover Management Scheme for SIP-based VoWLAN.....	425
<i>Yuliang Tang, Jie Li and Yan Yao</i>	

Session 3: Systems & Control

Design of a Real-time Display System Based on Camera Link	431
<i>HE Zhongxiang, YANG Shihong and WU Qinzhong</i>	
A Simulation of Gas Migration and Control in Goaf Based on Multi-components LBM.....	435
<i>Qiuqin LU and Guangqiu HUANG</i>	
Adaptive Backstepping Control of a Nonlinear Electromechanical System with Unknown Parameters	441
<i>Zhen Wang, Yuntian Wu, Yongxin Li and Yongjie Zou</i>	
Simulation Model Establishment and Analysis for Dynamic Supply Chain Network Equilibrium.....	445
<i>HU Xian-Wu and TENG Chun-Xian</i>	
Research on Computation of Web Request-load Based on a New Telescopic Fuzzy Sets	451
<i>YU Guofang and WANG Yaocai</i>	
OPC Server Software Design in DCS.....	456
<i>Tundong Liu, Gangquan Cai and Xiafu Peng</i>	
Fault-tree Analysis on Computer Security System Using Intuitionistic Fuzzy Sets.....	459
<i>Zhuqi Miao and Zhoujing Wang</i>	
A Computerized Concrete Raw Meal Analyzer Using a D-D Neutron Generator	464
<i>Xuesong Zhang, Daowen Cheng, Deshan Gu, Linmao Liu and Ming Wang</i>	
A New Verification Algorithm for Minimum Spanning Tree based on Reduction and Merge Technology	469
<i>Xiong Xiao-hua, Ning Ai-bing and Ma Liang</i>	
Design and Simulation of Fuzzy PID Controller for the Movable Beam in Gantry Machining Center.....	474
<i>YANG Xia, ZHAO Yan, XIAO Zhu and GUO Qingding</i>	
Research on the Control of the Suspension Stiffness for the Beams in Gantry Machining Center.....	479
<i>YANG Xia, XIAO Zhu, ZHAO Yan and GUO Qingding</i>	
Systems Engineering Method in the Study of Higher Education Structure Optimization	484
<i>Sun Shaorong and Zong Liyong</i>	
Automatic Measuring System of Part Contour Dimension.....	488
<i>ZHANG Peng, WANG Lei and JU Meilong</i>	
Development of Constant Voltage Control System for Hot-melt Pipe Welding.....	491
<i>HAO WeiLai and LUO Fen</i>	
Research on Model of Social Channel Based on Fuzzy Comprehensive Evaluation.....	495
<i>Wang Yuan, Li MaoQing and Hu XiaoJing</i>	
Direct Control of the Synchronous Stator Flux Linkage Based on PWM.....	498
<i>Hongcai Zhao and Aixian Pan</i>	
Research and Application of Clustering Algorithm on Rural Channel Classification Management by China Mobile Company	504
<i>ZHANG Yihua</i>	
Research of Performance Assessment and Monitoring for Multivariate Model Predictive Control System.....	509
<i>Wang Wei and Huang Zhuo</i>	
Study and Design on Switched Output Feedback Single-side Networked Control System with the Output Estimated by LS-ARX	515
<i>Liu Dian-ting, Zhou De-jian, Liu Yao-ming and Chen Shou-xue</i>	
Adaptive Inverse Control based on online SVR	519
<i>YinChao Yang and Bin Xi</i>	
Cycle-deadlock Control of RGV System via Petri Net	523
<i>Chang-Qing Wu, Jian Luo, Hong-Guang Tang, Bo Li and Ying-Hui Pan</i>	
A New Algorithm for the Structural Decomposition of the Fast Subsystems	529
<i>Yang Jianxiang, Lin Dongyun and Li Maoqing</i>	

Robust Positive Realness Analysis and Control for a Class of Systems with Uncertainties	534
<i>Shen Xiaoqi, Zeng Jianping and Liu Tundong</i>	
A Model of Risk Assessment of Software Project Based on Grey Theory	538
<i>Pang Qinghua</i>	
Adaptive Inverse Control Based on Recursive Least-Squares Algorithm.....	542
<i>Lu Ao and Bin Xi</i>	
The Research of Surveillance Monitoring System in Coal Mine Terrane Disaster on the Basis of the Video Image Processing Technology	545
<i>Yuan Xiaoping</i>	
AC Filter Based on Self-tuned Controllable Reactor	550
<i>Jiang Zhengrong and Li Zhengxi</i>	
Buses Departure Time Control Agent	556
<i>Chen Tao and Chen Senfa</i>	
Simulation Study of Heavy Motor Soft Starter Based on Discrete Variable Frequency	560
<i>Jiang Zhijun, Huang Xiaoling and Lin Na</i>	
A Simplified Construction Model for System Safety Analysis and Quantified Risk Assessment.....	564
<i>Wang W. H., Jiang X., Ren X., Tan H. and Cao Q.</i>	
Design of Management System for Computer laboratory Based on ITIL.....	568
<i>Tang Youchun and Hu Jianpeng</i>	
Some Issues on the Weights Analysis in Multi-Objective Decision Making and Multiple Learning Machines System.....	572
<i>Wang Pan and Zhu Haoshen</i>	
Design of Revs Curve Programmable Servo Control System.....	578
<i>Song Dejie and Tan Boxue</i>	
Optimization of Service Selection Algorithm for Complex Event Processing in Enterprise Service Bus Platform.....	582
<i>Ding Kun, Deng Bo, Zhang Xiaoyi and Li Ge</i>	
Tracking Control Algorithm Based on Photoelectric Sensors for Smart Car System.....	587
<i>Hao Xianwei and Sun Hongfei</i>	
The Design of Electronic Locks Based on Infrared Remote-Control with MCU	592
<i>Xue Zhangcheng and Xu Shunxiang</i>	
Force Control And Performance Evaluation Of A Servo Loading System With Hydraulic Cylinder	595
<i>Sang Yong, Zhu Yanfeng and Shao Longtan</i>	
Web Text Categorization on GBODSS	599
<i>Hu Mingsheng and Jia Zhijuan</i>	
Design of Processing and Display System for Intelligent Structure Characteristic Data Based on LabVIEW.....	604
<i>Lang Liying and Shen Lan</i>	
The Control to Eliminate Impulse for a Class of Singular Interval Systems.....	608
<i>Wang Ruliang, Wen Yanchao and Hong Lei</i>	
Research on Quaternion-Quintic Spherical Bézier Spline Interpolation Algorithm for 5-axis Machining.....	612
<i>Peinan Li and Ruifeng Guo</i>	
Online Co-design of Feedback Control and Real-Time Scheduling for Embedded Systems with Communication Delays	618
<i>Gaofeng Che and Yongxian Jin</i>	
A New Method for Solving the Shipborn Weapon System Optimal Configuration Problem	624
<i>Yu Guoqing, Liu Chuanbo, Sun Shiyan and Wang Hangyu</i>	
A Study on the Optimal Design Method of Pill Kinds Firing Time Sequence.....	628
<i>Hui LI, Hangyu WANG, Xianjun HU and Zhiming QIU</i>	
A Kind of Safety Fire-Control Algorithm for Shipborne Multi-Multi-Barrel-Weapon	632
<i>Wang Liang, Wang Hangyu, Qiu Zhiming and Wang Liang</i>	
Identification and Control of Electro-Hydraulic Servo System Based on direct Dynamic Recurrent Fuzzy Neural Network	637
<i>HUANG Yuanfeng and ZHANG Youwang</i>	
Modeling Decision and Cooperation of Multi-agent System using Petri Net	643
<i>Lin Zishen, Li Wei and Li Maoqing</i>	
A Method of Speed Measurement without Sensor in Motor Soft Starting Control System	647
<i>Zhijun Jiang, Xiaoling Huang and Na Lin</i>	
Evaluation of information sharing capability of supply chain partners	651
<i>ZhongHua Yang and Jing Tu</i>	
Investigation of Reverse Engineering Based on Instant Message Software under Win32 Platform.doc.....	656
<i>Lin Xiao, Yin Zhao, Li Wei, Yu Wuyi, Cai Jianhui and Li Maoqing</i>	
The Research on Modeling and Optimizing of Remanufacturing Reverse Logistics Networks.....	660
<i>Wu MiLiang</i>	

Session 4: Computer Graphics

A Real-time Subsurface Scattering Rendering Method for Dynamic Objects	667
<i>LI Shuai, HAO Ai-min, WANG Zhen and LIAN Ren-ming</i>	
A Geometrically Robust Watermarking Scheme Based on Perceptual Hashes and Genetic Algorithm	673
<i>Li Chuanmu and Song Haiming</i>	
The Research of Display System for Surface Surveillance Radar.....	679
<i>WANG Lin, LI Nan and XU Xiaohao</i>	
An Effective Video Temporal Error Concealment Method.....	683
<i>RUAN Ruolin, HU Ruimin and LI Zhongming</i>	
Design and Implementation of Virtual Culture Museum.....	686
<i>Siyao LIU and Jinglin JIA</i>	
SPH-based Visual Simulation of Fluid	690
<i>Jun Chen, Kejian Yang and Yuan Yuan</i>	
An Image Watermark Adding and Detection Method.....	694
<i>YU Dong-Mei</i>	
The Research on Target Recognition and Image Tracking System Based on High-speed DSP.....	697
<i>Yin Chunfang and Zhao Dean</i>	
Status Recognition Technology Based on Extraction of Facial Feature Information	701
<i>Yu Guofang and Li Jian</i>	
Generating Algorithm for Cubic Curves with Double-step Increment.....	707
<i>WU Li-hua, WU Qing-biao and HUANG Xin-xian</i>	
A Comparative Study of Doppler Weather Radar Data Compression.....	712
<i>Wei-hua AI, Chao-ling SHEN, Yun-xian HUANG and Zhi-guo CHANG</i>	
A Robust Digital Watermarking Scheme Based on Integer Wavelet using Compound Encryption	716
<i>Zheng Qiumei, Shi Gongxi and Lv Xinghui</i>	
3D Reconstruction of a Femur Shaft using a Model and Two 2D X-ray Images	720
<i>Wei Wei, Wang Guorong and Chen Hua</i>	
3D Reconstruction for Machine Elements Based On Industrial CT Slices.....	723
<i>Feng Yuqiang</i>	
Geo-location Method for Television Tracker Carried by Projectile.....	727
<i>Li Hui, Qiu Zhiming and Wang Hangyu</i>	
MODIS Image Compression Based on JPEG2000.....	732
<i>Zhang Hui, Ai Weihua and Shen Chaoling</i>	
Research on Key Technologies of Free Stereoscopic Display under Multi-views and Multi-view Video Coding.....	735
<i>Zhang Wen and Wu Juan</i>	
Image Enhancement based on Lifting Wavelet Transform.....	739
<i>Wang Xiubi</i>	
A Practical Method for Real-time Ocean Simulation.....	742
<i>Li Bo, Wang Cheng, Li Zhongyi and Chen Yangjian</i>	
Real-Time Rendering of Large-Scale Tree Scene.....	748
<i>Huai Yongjian, Zeng Xi, Yu Peng and Li Jingli</i>	
Image Threshold Segmentation Method with 2-D Histogram Based on Multi-resolution Analysis.....	753
<i>Shuqian He, Jiangqun Ni, Lihua Wu and Sixuan Zhao</i>	
3D Volume Evaluation of the Interested Area From Sequential 2D Cardiac Ultrasound Images With Multi-direction 3D Recursion Algorithm	758
<i>Fu qi, Tigang Jiang, Lixue Yin and Chen zhi</i>	
The Design of DSP-Based Corner Detection for Power Line Inspection Robot	763
<i>Qi Zuo, Zijian Guo, Dehui Sun and De Xu</i>	
Simulation of Nearshore Wave Based on Physical Module in Real-time.....	767
<i>Yongjin Li, Yicheng Jin, Yong Yin and Fangbing Xiao</i>	
Volumetric Texture Synthesis using Fundamental Solution Methods.....	771
<i>Fei Zhao, Wuyi Yu, Maoqing Li and Xin Li</i>	

Session 5: Database Technology

Research on Construction Technology of Equipment Support Information Integration Platform.....	779
<i>ZHU Min, LIU Huazhang and FAN Shaoli</i>	
Clustering Algorithm based on Optimal Intervals Division for High-dimension Data Streams.....	783
<i>Yinzhaoli, JiadongRen, ChangzhengHu, LinaXu and JiadongRen</i>	
A Long-lived Transaction Model and Mechanism in Grid Database	788

<i>Zhaowen Wei and Jicheng Zhang</i>	
The Research of Classification based on Improved RBF Neural Network	792
<i>WANG Lin-shuang, ZHOU Li-juan, GE Xue-bin and SHI Qian</i>	
CNclustering: Clustering with Compatible nucleoids	797
<i>Renxia Wan, Lixin Wang, Mingjun Wang, Xiaoke Su and Xiaoya Yan</i>	
Nonlinear Dynamics Analysis in Patients with Coronary Heart Disease in Chinese.....	801
<i>Heng Wan and Ohye Chihiro</i>	
Data Organization and Management Based on PDA	804
<i>Jianlian Li, Dengwen Gan, Jihua Ye and Xiaoxu Ouyang</i>	
The Research on Scheduling Algorithms of Grid Spatial Database	808
<i>Lin Xiaosheng, Zhao Zhiyong and Liu Yuxuan</i>	
Fuzzy Search on Non-numeric Attributes of Keyword Query over Relational Databases.....	811
<i>Li Fangzheng, Luo Doyong and Xie Dong</i>	
Producing Synoptic Data Structure for High Speed Data Streams in Telecommunication Network Management	815
<i>Jiang Guoquan, Deng Bo, Zhang Xiaoyi and Ding Kun</i>	
Risk Management Based on Data Warehouse of Securities Companies	819
<i>Zheng Chunying and Guo Weiqing</i>	
Analysis and Solution of Data Quality in Data Warehouse of Chinese Materia Medica.....	823
<i>Bing Chen, Beizhan Wang, Xuchu Weng and Xueqin Hu</i>	
One Database Pass Algorithms of Mining Top-k Frequent Closed Itemsets	828
<i>Yong QIU and Yong-Jie LAN</i>	

Session 6: Software Engineering

Research on Dynamic Semantic Integration of EERP Based on SOA	837
<i>Baoan Li and Jingzhi Liu</i>	
Research of Searching Algorithm for Path Test Data Generation.....	842
<i>Zhang Zhonglin, Jia Limin and Mei Lingxia</i>	
A Category Theoretic Approach to Search Algorithms: Towards a Unified Implementation for Branch-and-Bound and Backtracking.....	845
<i>ZHENG Yujun, XUE Jinyun and SHI Haihe</i>	
Test Generation from StateChart and B Method for Flight Control Software	851
<i>LIU Jiuju and YANG Zhenxing</i>	
Abstraction Framework and Complexity of Model Checking Based on the Promela Models	857
<i>CHEN Daoxi, ZHANG Guangquan and FAN Jianxi</i>	
Mapping Approach for Model Transformation of MDA based on xUML	862
<i>Yang Xiao-mei, Dai Heng and Gu Ping</i>	
Extension Features-Driven Use Case Model for Requirement Traceability	866
<i>Leilei Kong and Tao Yuan</i>	
A Behavior-Driven Model of Component Interaction Adaptation.....	871
<i>QI Huacheng, RONG Mei and ZHANG Guangquan</i>	
Extendable Expert Rule Model and Implementations in Manned Space Mission Collaboration Planning	876
<i>Xing Jinjiang, Li Jian, Zhou Hong and Yang Wen</i>	
A Method for Soundness Verification of Workflow Model Based on Petri Net	880
<i>WANG Jianliang, XIA Zhiwei and DING Yanan</i>	
Venus: A Visual Java Virtual Machine Framework.....	884
<i>Weimin Wu, Yongfeng Cao, Qing Su and Kailun Li</i>	
A New Trusted Software Modeling Method	889
<i>Yang Jie, Zuo Baohe and Yu Mincong</i>	
Toward Simple Learning Design 2.0	894
<i>Durand Guillaume and Dowens Stephen</i>	
An Adaptive Fault-tolerant Mechanism for Web Services Based on Context Awareness	898
<i>Chen Ningjiang and Lin Pan</i>	
A Study of Local Component Library Based on UCDL.....	904
<i>Xu Shoukun, Chu Xiaomei and Ma Zhenghua</i>	
The Implementation of Observer Pattern by Aspect Based on Properties File.....	908
<i>Liu Jcheng, Wang Yuhua, Wang yabo and Xu Su</i>	
On Semantic Propagation Mechanism in Aggregate Relationship.....	913
<i>Zhao Bo, Liao Yanling and Lu Yudan</i>	
Comparison of Means of Compliance for Onboard Software Certification.....	917
<i>Yan Fang</i>	

Towards Automatic Generation of Test Data using Branch Coverage	921
<i>Chen Jifeng and Yang Luming</i>	
An Application Research Based on Workflow OAS.....	926
<i>Yang Guojun and Wang Xueyuan</i>	
Research on the Water-fertilizer Integration and Coordination Management Pattern of Cotton with Drip Irrigation under Mulch film.....	929
<i>Xin Lv and Dong-mei Pan</i>	
Study and Design of Enterprise Information-Based System on SOA.....	933
<i>Gengjie Huang</i>	
A Framework for Component Based Software Flexible Design.....	937
<i>Longye Tang and Yukui Fei</i>	
Estimation of Software Projects Effort based on Function Point.....	941
<i>Yinhuan Zheng, Beizhan Wang, Yilong Zheng and Liang Shi</i>	
VPGE - A Fast Practical GLR Parser Generator.....	944
<i>Xu Fu, Jin Mao-zhong, Li Hu and Song Miao</i>	
A Database Security Testing Scheme of Web Application.....	953
<i>Yang Haixia and Nan Zhihong</i>	
Research and Design of Animation Promotion Public Service Platform Based on SOA.....	956
<i>Su Shuwen, Dong Huailin, Qiu Guozheng, Li Jingyu and Guo Zhende</i>	
The Mobile Search Platform Base on Base Station.....	960
<i>Dong Huailin, Zheng Yuhui, Gao Xin, Chen Fan and Guo Xin-hua</i>	

Session 7: Computer Application

Program Design of Key Parametric Modeling Based on 3D Softwares	967
<i>Yin Xiaowei, Qian Wenxue, Xie Liyang and Huang Dayan</i>	
The New Non-equidistant Optimum GM(1,1) of Line-Drawing Data Processing in Computer Aided Design.....	971
<i>Youxin LUO and Zheming HE</i>	
Design and Implementation of A Distributed IDS Alert Aggregation Model.....	975
<i>Guo Fan, Ye JiHua and Yu Min</i>	
The Crossing Platform Research of OPC Data Access based on FDT	981
<i>JIN Qi-bing and WANG Yan-yan</i>	
Mobile Target Detection of Intelligent Surveillance System based on Modified GVF	986
<i>ZHOU Jian-zhong and WANG Shu-zong</i>	
Research of “Stub” Remote Debugging Technique	990
<i>Hongwei Li, Fangsheng Wu, Yaping Xu and Changhong Yin</i>	
Two Typical Detection Operator Contrast	995
<i>Zheng Youyi, Yang Dong and Rao Jilai</i>	
Research on Mobility Resource Sharing in Grid-enabled Environment	999
<i>Liu Zhaobin, Liu Wenzhi and Gu Junzhong</i>	
Research of Performance Evaluation of Course Design Based on Rough Set Theory.....	1005
<i>Hong Liu and YinxiaoMa</i>	
Study on a Speech Learning Approach Based on Interval Support Vector Regression	1009
<i>Peipei Liu</i>	
Virtual Reality Simulation System for Underground Mining Process.....	1013
<i>Guo Mingming and Zhou Keping</i>	
The Research of Data Representation and Processing Method in Logic Chip Equivalent Function Description	1018
<i>ShengYong Liu, Li Huang and QingHua Huang</i>	
The Research of Extracting and Verifying Equivalent Function for Logic Unknow Chip.....	1023
<i>ShengYong Liu, Li Huang and QiZhong Cai</i>	
Making XML Schema to Support Multilingual Markup	1029
<i>Ning LI, Ying-ai Tian and Qi Liang</i>	
A New 3-D Graphical Representation of DNA Sequences and their Numerical Characterization	1035
<i>Jie Song</i>	
Design and Implementation of a Java-based Search Engine Algorithm Analysis System	1040
<i>Xia Feifei and Zhang Guangnian</i>	
Useful Resources Integration Based on Google Maps	1044
<i>Anbao WANG, ZHANG Jun and Wenrong JIANG</i>	
An Adaptive Algorithm for Generating Question Paper with Multi-Factors	1048
<i>SUN Chenxia, LIU Bo, JIN Zhiqiang and WANG Chao</i>	
Research and Implementation of Microcomputer Online Fault Detection of Solar Array	1052

<i>Huang Zhiqiang and Guo Li</i>	
Application of Support Vector Machine in the Detection of Fraudulent Financial Statements.....	1056
<i>Qingshan Deng</i>	
Design of University Teaching & Research Resources Sharing Platform Architecture Based on SaaS	1060
<i>LIAO Hancheng</i>	
News Story Segmentation Based on Audio-visual Features Fusion.....	1065
<i>Yu Song, Wenhong Wang and Fengjuan Guo</i>	
A Logistics-Oriented Enterprises Services Composition Model.....	1069
<i>JIN Ming, XU Guangwei, ZHAO Yanming, CHEN Shuo and ZHENG Ningchuan</i>	
Operative Plan Research Of Middle And Small Container Wharf	1074
<i>YAN Yongze and LIU Qing</i>	
The Research on Architecture of Intelligent E-learning System.....	1079
<i>Gang Chen</i>	
Research and Practice on Disaster Preventive Scheme Management.....	1082
<i>Zhou Zhi-min, Chen Zhong-wen, Yue Guo-ying and Guo Xue-mang</i>	
Subjective Assessment of Switching in H264 SVC Video Coding Standard.....	1086
<i>GONG Wei and ZHANG Xiaoxu</i>	
Research on Modeling and Simulation in Virtual Experiment System.....	1090
<i>YANG Yanming, ZHANG Li and ZHENG Haiyan</i>	
Research on Rule Definition and Engine for General Text Processing	1095
<i>Song You, Huang Lu and Liang Shixing</i>	
Research on the Application of Ontology on the Teaching Resource Sharing Platform.....	1101
<i>Yi Wenwen and Luan Yonghong</i>	
Research on Application of IGA (Immune Genetic Algorithm) to the Solution of Course-Timetabling Problem	1105
<i>Shi Juan, Su Yidan and Xie Min</i>	
Application of GIS and Spatial Decision Support System for Affordable Housing	1110
<i>Zhang Zuo, Li Jiangfeng, Liu Yanzhong and Chen Biao</i>	
Natural Safety Prediction of Non-coal Mine Accident Based on BP Neural Network	1116
<i>Wang Dan, Zhou Keping and Chen Qingfa</i>	
Data Modeling for The Data Mart in The Prediction System of Specialty Setting.....	1120
<i>Wang Xiaoguo and Liu Lijuan</i>	
ARIMA Time Series Application to Employment Forecasting	1124
<i>Wang Xiaoguo and Liu Yuejing</i>	
A Functional Enhancement Methodology to JTAG Controller in Complex SOC.....	1128
<i>Guo Jianmin and Luo Delin</i>	
Implement of Real-Time GPS L1 Software Receiver	1132
<i>Li Shi, Zhai Chuanrun, Zhan Xingqun and Wang Boxiong</i>	
A Forecast Model Based on The BP Neural Network Used in Refinery's Steel Equipment's Corrosion.....	1138
<i>Ma Zhuo, Lin Kunhui, Jiang Xiangmin, Zhou Changle and Liu Han</i>	
Network Security Risk Assessment Based On Association Rules	1142
<i>Cheng Xiaorong, Wei Yan and Geng Xing</i>	
Insider Cyber Threat Situational Awareness Framwork using Dynamic Bayesian Networks.....	1146
<i>Tang Ke, Zhou Mingtian and Wang Wenyang</i>	
SOPC Based Flexible Architecture for JPEG Encoder	1151
<i>Cai Ken, Liang Xiaoying and Liu Chuanju</i>	
Fast Gate-level Simulation and Power Analysis For High Performance Microprocessor.....	1155
<i>Zhang Yiwei and Zhang Ge</i>	
Using BOINC Desktop Grid for High Performance Memory Detection	1159
<i>Yao Huiping, Zhao Lei, Li Ying and Yang Jiwen</i>	
Design and Implementation of Taxi Calling and Dispatching System based on GPS Mobile Phone.....	1163
<i>Yu Jianxin, Zhou Xiaomin and Zhao Hongyu</i>	
Surgical Navigation System Design for MISS.....	1170
<i>Chen Yanqiu and Song Yin hao</i>	
Computer Simulation of Gas Pressure and Drainage Radius for Dense Boreholes Gas Pre-drainage in Outburst Coal Seam.....	1174
<i>Yi Lijun, Tang Zhiling and Yu Qixiang</i>	
A Jumping String Mode Matching Algorithm.....	1181
<i>Wang Wen-jian and Wu Shun-xiang</i>	
Vista Event Log File Parsing Based on XML Technology.....	1186
<i>Huang Xiaoyu and Wu Shunxiang</i>	
CAI of Harmonics with Four-part Keyboard Harmony Effectively Used to Improve Teaching Quality.....	1191
<i>Naiming Yao, Shudong Zhang, Ye Qin and Liming Luo</i>	

An Improved Moving Target Detecting and Tracking Based On Optical Flow Technique and Kalman Filter.....	1197
<i>Yuqiang Fang and Bin Dai</i>	
Ontology-Based User Modeling for Adaptive Educational Hypermedia System.....	1203
<i>Zhiyong Liu, Lei Liu, Hui Kang and Shaochun Zhong</i>	
Calculation Model of Life Cycle Inventory for a Product System.....	1208
<i>GONG Xianzheng, NIE Zuoren, WANG Zhihong and GAO Feng</i>	
The Research and Realization of Intranet Security System Management.....	1212
<i>Lei Liu</i>	
Specification and Verification of Cryptographic Protocols based on TCPL.....	1216
<i>LEI Xinfeng, Li Xinghua, LIU Jun and XIAO Junmo</i>	
A Three-phase Active Power Filter based on PARK Transformation.....	1221
<i>Changqing Cai, Liping Wang and Guohui Yin</i>	
An Ontology-based Event Matching Dealing with Semantic Heterogeneity in Pub/Sub Systems	1225
<i>Wenting Si, Xiaoping Xue and Xiaoping Wang</i>	
The Design and Development of the Auto-evaluation System on China Coast Guard Vessel Simulator	1231
<i>Yu-Feng YANG</i>	
The Research of Missing Value Estimation of Gene Sequence Based on Improved KNN.....	1235
<i>Cai Qing, Wu Qingfeng, Dong Huailin and Liu Han</i>	
The Design of Industrial Ethernet Adapter Based On Ethernet/IP	1239
<i>T.D.Liu, W.Tang and H.Jiang</i>	

Session 8: Web Application

An Efficient Wrapper for Web Data Extraction and its Application.....	1245
<i>Suzhi Zhang and Peizhong Shi</i>	
A Web Service Based Enterprise Information Integration Model.....	1251
<i>X. Y. Li and Y. Qian</i>	
Strategic Intelligence Model Based on SOA and BPC.....	1255
<i>Wu Qingqiang and Wu Maowen</i>	
WEB-based Personalized Learning Habits of Research and Evaluation Techniques	1259
<i>He Yueshun and Du Ping</i>	
Personalized Web Based English Learning System Using Artificial Neural Networks.....	1263
<i>Shiqiang Wang, Yuhang He, Zheng Liu and Huimin Wu</i>	
Design and Implement of Web-based Intelligent Decision Support System for Prevention and Control of Fruit Tree Diseases and Pests.....	1269
<i>Liu Chuanju and Cai Ken</i>	
Optimize the Web Personalized Recommender Model using Market Mechanism	1272
<i>Su Yidan and Guo Huilin</i>	
Implementation of Web Security & Identity Scheme Based on Session & Online Table.....	1278
<i>Cao Min, Xing Tangyang and Wang Chun</i>	
Trust and Security Research of the C2C E-Commerce System Based on third part payment Platform.....	1284
<i>Wei Feifei</i>	
The Research of PSO Algorithm in Web Information Filtering.....	1288
<i>Cheng Xiaorong, Wang Dong and Xie Kun</i>	
A Heuristic Web Information Retrieval Method	1292
<i>Yang Yi, Peng Yanni and Tang Can</i>	
Design and Realization of an Information Platform for Administration of Press and Publication Based on Sharepoint	1297
<i>Fang Shen</i>	
CRNS: A RIA System for Course Relationship Network Visualization	1301
<i>Ye QIN, Shudong ZHANG, Naiming YAO and Liming LUO</i>	
e-Business Schema in Grid Environment.....	1307
<i>Jianhua Jiang, Gaochao Xu and Xinzhong Liu</i>	
Research on Application of Web Based ESB in School Common Data Platform.....	1311
<i>Jihong Yan, Wenrong Jiang, Shiliang Zheng, Cuihong Wu and Hailan Pan</i>	

Session 9: Computer Education

The New Teaching and Learning Modes Based on Internet for Deaf Students.....	1319
<i>Wang Jinjin and Li Qiang</i>	
Introducing Formal Derivation into the Design and Analysis of Algorithms	1322
<i>Haipeng Shi and Haihe Shi</i>	

The Impact of the usage of Wikis from a Teacher/Student Perspective in an Educational Context	1325
<i>Pedro Abreu, Daniel Castro Silva, Pedro Mendes and Vasco Vinhas</i>	
The Integration and Design of University Geography Experiment Teaching System based on the Virtual Reality Technology	1331
<i>Jiang Huixian, Lin Guangfa, Zhang Mingfeng and Huang Wanli</i>	
Teaching Exploration and Practice of the Course “Introduction to Computer Science”	1335
<i>Zhang Xiaofeng, Zou Hailin and Tang Xinting</i>	
Research and Practice on Graduation Field Work of Package Pattern	1340
<i>ZHANG Sheng and ZHANG Ying</i>	
Design and Application of Practical Teaching Framework of ERP Course.....	1346
<i>Qingshan Deng, Aihua Yin and Baodong Tu</i>	
Design and Application of Structure Mechanics CAI Courseware	1349
<i>Tao Cheng and Keqin Yan</i>	
Computer Simulation for Undergraduate Engineering Education	1353
<i>Zhou Huanyin, Liu Jinsheng, Wei yangjie, Xia Hong and Qian Min</i>	
Enhancing Teaching of Computer Organization through Concrete Examples and Laboratory Experiences.....	1357
<i>Xuesong Zhang</i>	
Study on Curriculum Teaching Related Computer for Non-Computer Specialty of Sciences and Engineering	1363
<i>MIN Xinmin and ZHANG Baorong</i>	
Applications and Studies of the Computer Simulation Methods in Physics	1368
<i>Liu li-li and Ji chang-peng</i>	
The Exploration of IT Education in Higher Vocational Colleges.....	1372
<i>ZHOU Zhimin, YUE Guoying and GUAN Xiaohui</i>	
The Application in Computer Teaching about the Relationship between Theory and Practice	1375
<i>Ji Yali and WENG Mei</i>	
Investigating Current Situations of Graduation Theses (Projects) From Local Universities of Finance & Economics.....	1378
<i>Tong Yi</i>	
Study on the Status of Computer Education in Logistics Management Professional and Reform Proposals.....	1383
<i>Jianliang Peng</i>	
Research on the Talent Cultivating Scheme of Software Engineering Referring to Western Mode.....	1388
<i>Chunting Yang and Yang Liu</i>	
The Education in Java Programming and the Deployment in E-commerce Project	1392
<i>Anbao WANG, HaiLan Pan and Wenrong JIANG</i>	
Study on Experimental Table Wireless Control System of Open Laboratory Based on ZigBee Technology	1396
<i>Lian Yuxin, Wu Jianqiang, Meng Tao and Shi Gengsu</i>	
Application and Education of Computer for Special People	1400
<i>SUN Xiang, ZHAO Feng, LUO Xuan and REN Xucai</i>	
Data Mining and Application of Teaching Evaluation Based on Association Rules	1404
<i>Pan Qingxian, Qu Linjie and Lou Lanfang</i>	
Construction on Web Resources of CAID Excellent Curriculum	1408
<i>Cheng-xin Yan</i>	
Teaching Mode of Operating System Course for Undergraduates Majoring in Computer Sciences	1412
<i>Wu Qingqiang and Cao Langcai</i>	
Develop Undergraduates’ Computer Science Research Capabilities of Regional University in China	1416
<i>HUANG Jun</i>	
An Email-Based Discussion Learning System with Ubiquitous Device Support.....	1420
<i>Xinyou ZHAO and Toshio OKAMOTO</i>	
Cultivating the Ability of Security Coding for Undergraduates in Programming Teaching	1425
<i>CHEN Bo, XU Da-wei, GAO Si-dan and YU Ling</i>	
Developing a Computer Forensics Program in Police Higher Education	1431
<i>Liu Zhijun and Wang Ning</i>	
A CDIO Approach to Computer & Communication Program at Regional University	1437
<i>Xing-qiang ZHANG</i>	
Investigation and Analysis of the Curriculum System for Chinese E-Commerce Post-graduates	1440
<i>Xin Yang and Xiaoxia Wang</i>	
Some Thoughts of Top-level Design for Specialty Program of Computer Science and Technology	1445
<i>Xi-Ping He and Qiong-Hua Zhang</i>	
The Remote Education Assistant System for the Virtual Physics Experiment Teaching System.....	1451
<i>Shoubiao Tan, Chao Xu, Jianqing Huo and Xiaopu Wang</i>	
Research of Promoting Coordinated Development of Urban and Rural Teachers by Network Teaching Platform.....	1455
<i>Caiping XIONG and Jinglin JIA</i>	
The Research and Practice of Case Teaching Method in Computer Curricula for Undergraduates.....	1460

<i>Shu-xi Lu and Yu-juan Wang</i>	
Using LINQ as an Instructional Bridge Between Object-Oriented and Database Programming.....	1464
<i>WANG Kan and ZHENG Yujun</i>	
Research and Practice on Cultivation of IT talents in Appied Undergraduate Education through Business- Education Partnership.....	1469
<i>REN Xiang-min and ZHOU Xue-yan</i>	
Application of Schema Theory in the Course of Foundations of Computers.....	1473
<i>Wengou Jing and Rongfang Gao</i>	
Thought on Embedded System Education for Application-oriented Undergraduates of Electronics Major	1476
<i>Cai Limin</i>	
Designing A Macro Mechanism for Learning Sequencing Based on the IMS Specifications.....	1479
<i>Zhu Xin-hua, Zhang Bo and Zeng Qing-ling</i>	
Fuzzy-Based Clustering Genetic Group Model of Project Practice Teaching.....	1484
<i>Benting Wan</i>	
The Design, Implementation and Application of MiniJava/AD as an Object-oriented Compiler Teaching Model.....	1488
<i>HU Xuelian and HAN Dong</i>	
Cultivation Model of Information Security Specialty Talents Based On the Coupling Mechanism of the Demand.....	1492
<i>JIANG Hua and QIN Jing</i>	
Exploration and Practice of Computer Speciality Cultivation for Ordinary University.....	1497
<i>Cai Ying, Zhou Weizhen, Wang Tiefeng, Dong Wan and Liu Chenxia</i>	
Research on Teaching Reform of“Computer Control Technology”	1502
<i>An Shiqi and LI Yingge</i>	
Computer Hardware Curriculums, Curriculum Contents and Teaching Methods	1506
<i>Li Da</i>	
Research and Practice of the PBL Model for Data Structure Curriculum.....	1512
<i>Jie Anquan, Gan Dengwen, Yang Qinghong, Wang Lan and Li Yunqing</i>	
Research on Interactive Teaching Mode Based on Dual Subjects in “Technologies of Internet Investigation”	1516
<i>CHEN Dapeng and SONG Malin</i>	
A Novel Teaching Model for University Computer Foundation Course.....	1520
<i>Li Gao and Fang Wang</i>	
The Long Tail Virtual Teacher	1524
<i>Cheng Lehua, Jin Jin and Ha Yingmin</i>	
Design and Implementation of Bilingual Teaching Evaluation System Based on BP Neural Network.....	1527
<i>Rao Hong and Hu Qing</i>	
The Exploration of Talent Cultivation for Vocational and technical Undergraduate of Computer Science.....	1531
<i>Guo Xin and Zhang Junhua</i>	
A Research on the Model and Methods of Teaching to Students from Overseas for the course Microcomputer Principle and Interface Technology.....	1535
<i>Xie Jun, Zheng Liming and Wang Sihua</i>	
Populating the Global Software Talent Pool: An Effective Approach to Computer Science Education in China.....	1539
<i>Shao Kun and Maher Peter</i>	
Research and Design on Corpus-Informed Vocabulary Instruction (CIVI) under Web Condition.....	1545
<i>Yang Ping and Chen Qisong</i>	
The Anchored Instruction for Programming Courses: Cases, Tasks and Knowledge Transfer.....	1549
<i>Liu Qi and Wang Xiaorong</i>	
A Comprehensive Approach for Software Group Project Assessment based on Students’ Evaluation	1553
<i>Ge Yujia, Han Peiyou and Xu Bing</i>	
Evaluation and Analysis on the Relation between the Configurations of Computer Major Course and Graduation Employment Rate	1559
<i>Pan Lie, Wang Xun and Chai Chunlai</i>	
The Key Issues Research of Apple-based Courseware Center of Mobile Learning System	1565
<i>Wang Xiaoguo and Wu Yu</i>	
Discussion About Teaching Styles of Discrete Mathematics.....	1569
<i>Wu jiangqin, Lin Lanfen, Zhang Sanyuan and Qian Yuncao</i>	
Tree-based Database Design -A Revelation of Practice Teaching of Data Structure	1572
<i>Cao Min, Luo Shu and Miao Huaikou</i>	
A Research on Web-based Cooperative Learning of Hearing Impaired University learner.....	1576
<i>Sheng Lihua and Xujiacheng</i>	
An Integrated Use of Spreadsheets Software in Logistics Education.....	1580
<i>Jiang Changbing</i>	
Discussion on Teaching Innovation of the C Language Program of the Noncomputer Specialty	1585
<i>Wang Yuanmei and Liu Feng</i>	

The Course Choice between C Language and C++ Language.....	1588
<i>He Yu</i>	
A Study of Inter-school Open-ended Project.....	1591
<i>Cen Gang and Lin Xuefen</i>	
The Design of a Parallel Computing Experimental Platform based on Xen and OpenMP.....	1595
<i>Wang Huiyan</i>	
Research and Practice on Design Method of Special Course System.....	1600
<i>Xu Yabin</i>	
Teaching Cryptography-based Software Developing with Open-source Software.....	1604
<i>Tang Yi and Zhou Quan</i>	
Introducing the Binomial Simulation Method in the Undergraduate Algorithms Course.....	1609
<i>Zhang Jun and Liu Chunlei</i>	
Reflections on the Practice of Bilingual Approach in Teaching Network Security and Management.....	1613
<i>Jiang Wenjuan, Lu Zhaohui and He Shuqian</i>	
Research on ICT Instruction for the Graduates of Ethnic Minorities Advanced Talent Program.....	1616
<i>Han Xu, Lu Xi, Wang Hui and Cao Yongcun</i>	
Integration of Level-based Labs on Design Pattern.....	1620
<i>Xing Wanxia and Xu Yingxiao</i>	
Application of 6-Using Mode in Computer Education.....	1626
<i>Yang Ping, Yang Yong and Dong Jianguo</i>	
An Experiment of Computer Curriculum Reform Based on CDIO in Engineering Education.....	1629
<i>Zhang Yifang and Liu Jie</i>	
Reflections on Computing Education for Liberal Arts Students from Demand Perspective.....	1633
<i>Gao Kefu and Yu Shanshan</i>	
Research of Haptic Techniques for Computer-Based Education.....	1636
<i>Yan Fengxin, Hou Zengxuan, Zhang Dinghua, Kang Wenke and Zheng Junqi</i>	
Computer Technology for Research on math major practice teaching in engineering colleges.....	1641
<i>Liu Fengchun, Zhang Chunying and Wang Jing</i>	
A Decision Tree Based Article Recommending System.....	1646
<i>Wu Meiyi, Tsai Shangrong and Yang Ziyi</i>	
A Hybrid Instructional Design Model for the Combination of Motivation Theory and Constructivism.....	1652
<i>Jin Haiwei</i>	
Software Choice of Econometrics Courses for Economics Undergraduates.....	1657
<i>Liu Ye and Huang Weibin</i>	
Cooperative Education of Professional Knowledge and Computer skills for College students in Mining Engineering.....	1661
<i>Wu Zhongxiong and Chen Qingfa</i>	
Exploration of Ability Development of Engineering & Computational Thinking Skills in Software Engineering Majors.....	1665
<i>Deng Zhenrong, Huang Wenming, Dong Rongsheng and Wen Peizhi</i>	
Equipment Conflict Checking and Removal for Innovation Talent Development in IT Undergraduate Education via E-CARGO Collaborative Model.....	1669
<i>Yu Bin, Xu Bin, Ling Yun and Zhu Haibin</i>	
Reflection Evaluation in Online E-Learning System via Hyperlinks Analysis.....	1673
<i>Xu Bin</i>	
Application of Software Engineering Approaches to Interdisciplinary Education.....	1678
<i>Yang Yingchen</i>	
The Curriculum in Embedded System for Undergraduates of Major on Computer.....	1683
<i>Yu Jianxin and Huang Yihua</i>	
A Model on Adaptive Example Recommendation for Programming Learning.....	1689
<i>Zhang Jinghua</i>	
Research on the Design of Network Testing Laboratory.....	1693
<i>Hong Fei and Bai Yu</i>	
Postgraduate Entrant and Employment Forecasting Using Modified BP Neural Network with PSO.....	1699
<i>Shen Xianjun, Chen Caixia, He Tingting and Yang Jincui</i>	
Using Speech Recognition Technology to Come True Liberated Learning for Deaf Students.....	1704
<i>Li Ye and Xu Jiacheng</i>	
Return to Engineering : Education Reform to Foster Applied Innovative Software Talents.....	1707
<i>Yang Dongyong, Li Penglin, Wang Ben and Chen Mingyang</i>	
Artificial Pet Game-based Intelligent Tutoring System.....	1711
<i>DU Hongyan, ZENG Zhen and TIAN Xingyan</i>	
Practice and Exploration of Bring up Project Practice Ability of Undergraduate in Multimedia Technique and Design ...	1715
<i>ZHANG Yunpeng, ZHU Yian, WU Junsheng and CAI Kangying</i>	
Research on Caching Strategy in a VoiceXML-Based Mobile Learning System.....	1718

<i>Zhang Long, Wang Jianhua and Shan Linlin</i>	
A Multi-Agent Intelligent Tutoring System	1724
<i>SUN Yu and LI Zhiping</i>	
Using Interesting Examples for Teaching Digital Image Processing Course.....	1729
<i>Fan Hong, Li De-min, Liu Tang-you and Cui Feng</i>	
Exploring Teaching Methods in Software Engineering Education	1733
<i>Jianguo Chen, Huijuan Lu, Lixin An and Yongxia Zhou</i>	
The Design of Whole-process Network Education Platform Based on Psychology Testing System.....	1739
<i>Guofeng Deng</i>	
Analysis of Impact of Teacher's Personality Characteristics on E-learning	1744
<i>Chen Gang</i>	
A Case Study of Web Site Design Course	1748
<i>Gang Chen</i>	
Study of Feedback Teaching for Computer Culture Basics.....	1752
<i>Wu Jiehong and Gao Fuxiang</i>	
Research-based Teaching in Artificial Intelligence Course.....	1756
<i>Zhao Weidong, Wu Haifeng and Wang Anhua</i>	
A Teaching Model based on Schema Theory for Economic Data Analysis Curriculum	1760
<i>Peng Cheng, Jianhua Jiang, Chijun Zhang and Ming Ma</i>	
Computer-Based Language Testing: Perspectives Of The Past And The Future	1764
<i>CHENG Ke</i>	
Rapid Access to Digital Library Resources: Application of Knowledge Maps in E-Learning Environment in Graduate Education.....	1769
<i>MU Yan and WANG Xiao-yue</i>	
A New Model of Developing Practical and Innovation Ability Based On Courseware.....	1772
<i>Hu Min and Du Juan</i>	
Design and Realization of Distance Teaching Platform Based on Virtual Classroom and Multi-Agent.....	1777
<i>LI Wei and Li Ping</i>	
An Alternative Teaching Method in Second-Order Circuit by Computer-Assisted Instruction	1781
<i>Mengmeng Zhang, Wenkai Liu, Xiaohan Guan and Changnian Zhang</i>	
Constructing E-learning Communities of Interest based on Learner's Rating Prediction.....	1785
<i>Jingtao Li, Gang Liu and Shengqi Lu</i>	
Application of Animation of Super Sketch-Pad on Mathematics Education	1790
<i>Qiang Ge, Xi-cheng Peng and Mao Chen</i>	
Study on the Resource Construction of the Modern Distance Education in Rural Schools	1796
<i>OU Qizhong</i>	
Study on Adaptation Education Methods for College Freshmen.....	1800
<i>Ruilin Pei, Kai Liu and Qing Zhao</i>	
A Digital Signal Processing Teaching Methodology Using praat.....	1804
<i>Kurban Ubul, Askar Hamdulla and Alim Aysa</i>	
Building an Open Lab on Information Quality for Future Computer Education.....	1810
<i>Ying Su, Jie Peng and Latif Al-Hakim</i>	
Visual Analysis of College Students' Scores in English Test	1816
<i>Gan Xiaoya, Liu Kan and Liu Ping</i>	
Theoretical Study and Practices on Training Model of Information Technology Competency for College Students.....	1820
<i>Jiangyu Li</i>	

Session 10: Other Advanced Technology

Modeling of Noises from EPS Motor and Noise Reduction Filter Design	1827
<i>Wang Hong and Zhao Yan</i>	
Development of Steering Simulator System for Evaluation of Electric Power Steering.....	1832
<i>Wang Yili, Zhao Yan and Wang Hong</i>	
Efficient Algorithms to Embed Hamiltonian Paths and Cycles in Faulty Crossed Cubes.....	1837
<i>Jianxi Fan, Wujun Zhou, Yuejuan Han and Guangquan Zhang</i>	
A Translocation, Insertion and Deletion Distance Formula for Sorting Genomes	1843
<i>HAO Fanchang, LUAN Junfeng, ZHU Daming and FENG Haodi</i>	
An Efficiency Filtering Algorithm for Mining Association Rules.....	1847
<i>Lou Lanfang, Pan qingxian and Chen zhiyu</i>	
A Novel Quantumized Fuzzy C-Medians Algorithm.....	1851
<i>Pankaj Srivastava, Manikanta Nallabelly and Vipin Kumar Verma</i>	

Design of an Imitating Human Controller Based on Rough Set Theory.....	1855
<i>Ai-Xian Pan and Yun Gao</i>	
Multi-Multiway Cuts with Edge Labels.....	1860
<i>Li Shuguang and Xin Xiao</i>	
An Application of Low Private Exponent Attack on RSA.....	1864
<i>Yong-Hui Zheng, Yue-Fei Zhu and Hong Xu</i>	
Study on a New Cable Guard Alarm System based on Fuzzy State Estimation.....	1867
<i>Zhen Yu</i>	
Design and Implementation of Image Compression Core Based on CCSDS Algorithm.....	1873
<i>GU Xiaodong, WANG Huaichao, ZHANG Xuequan and XU Shijun</i>	
Independence of Concepts with Application to Conceptual Modeling.....	1877
<i>FU Li</i>	
A Policy Language for Expressing Access Control Properties in PDAC Model.....	1881
<i>Xian Wu and Peide Qian</i>	
A Research for the Optimization of MIPS Instruction Set Simulation.....	1886
<i>LIU Ming and CAI Qixian</i>	
ESP Verification For Custom SRAM Array Design.....	1889
<i>Du Hongyan, Tan Maoqiong, Tian Xinhua and Xu Hongliang</i>	
Page Interest Estimation Model Considering User Interest Drift.....	1893
<i>Li Yan and Feng Boqing</i>	
Study of Electro-optical Measuring System for Measuring the Dimension of Plant Organs.....	1897
<i>Li Yuhuan and Zhang Jianmin</i>	
Hardware Implementation of a High Speed Floating Point Multiplier Based on FPGA.....	1902
<i>Gong Renxi, Zhang Shangjun, Zhang Hainan, Meng Xiaobi, Gong Wenying, Xie Lingling and Huang Yang</i>	
A Method for Automatically Determining The Number of Clusters of LAC.....	1907
<i>Liu Han, Wu Qingfeng, Dong Huailin and</i>	
An Improved 32-bit Carry-Lookahead Adder with Conditional Carry-Selection.....	1911
<i>CHEN Ping-hua, ZHAO Juan, XIE Guo-bo and LI Yi-jun</i>	
An Improved Design Method for Multi-bits Reused Booth Multiplier.....	1914
<i>Qian Yi and Han Jing</i>	
Modeling Method of Operation Process in WorkFlow based on Petri Net and UML.....	1917
<i>Guo Jiayang and Yin Xu</i>	
Constructing Secure Two-Party Authenticated Key Agreement Protocol Based on Certificateless Public Key Encryption Scheme.....	1923
<i>Mengbo Hou and Qiuliang Xu</i>	
A New Nonparametric Gene Selection Method for Classification of Microarray Data.....	1928
<i>Lihua Ye, Yonggang Li and Kun Yang</i>	
SCAD Algorithm and Its Application in Analyse of Bank Loan.....	1934
<i>Chen Xiaojie, Dong Huailin and Wu Qingfeng</i>	
A Novel Local Area Interpolation Algorithm for Heart 3D Recreation form 2D Cardiac Ultrasound Images with Ball Filter.....	1940
<i>Fu qi, Tigang Jiang, Lixue Yin and Chen zhi</i>	
Study of Multimode Perceptual on Detecting State of Flow Fields in Pump.....	1944
<i>ZHANG Yinnan, CEN Gang and FANG Zhigang</i>	
An Inverse Model for the Least Uniform Spanning Tree Problems.....	1949
<i>Wu Long-Shu, Wang Qin and Qiao Cheng</i>	
RABL - A High Performance Run-time Active Block Layout Mechanism for Cluster File System.....	1953
<i>Jun Lu, Yi Zhu, Bin Du and Liyong Ren</i>	
A New Algorithm For Watermarking Based On DCT and Chaotic Scrambling.....	1957
<i>Yanling Wang and Xiuhua Ji</i>	
An Ad-hoc Storage System for Hotspot Service.....	1962
<i>Xin Yu and Dan Feng</i>	
A Fast Matching Algorithm Based on K-Degree Template.....	1967
<i>Sha Sha, Chen Jianer and Luo Sanding</i>	

Author Index