



Proceedings of the Third International Conference on Computer Science & Education

(ICCSE' 2008)



Kaifeng, China
July 25-27, 2008



Organizer

China National Research Council of
Computer Education in Colleges & Universities

Conference Sponsor

Henan University, China

Technical Sponsors

IEEE Control Systems Chapter, Singapore Section

IEEE Control Systems Chapter, Beijing (Guangzhou) Section

University of Melbourne Australia

University of Virginia, the U.S.A

National University of Singapore, Singapore

Xiamen University, China



厦门大学出版社
XIAMEN UNIVERSITY PRESS

Advanced Computer Technology, New Education

Proceedings of ICCSE' 2008

July 25-27, Kaifeng, China



IEEE



Organizer

China National Research Council of
Computer Education in Colleges & Universities

Conference Sponsor

Henan University, China

Technical Sponsors

IEEE Control Systems Chapter, Singapore Section

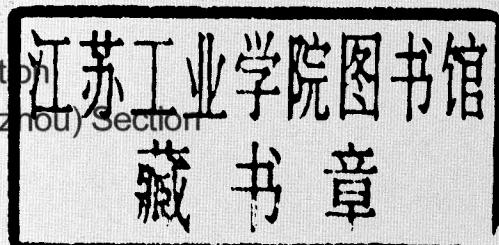
IEEE Control Systems Chapter, Beijing (Guangzhou) Section

University of Melbourne Australia

University of Virginia, the U.S.A

National University of Singapore

Xiamen University, China



图书在版编目(CIP)数据

第三届国际计算机新科技与教育学术会议论文集=Proceedings of the Third International Conference on Computer Science and Education (ICCSE'2008)/李茂青主编. —厦门:厦门大学出版社,2008.7

ISBN 978-7-5615-3050-4

I. 第… II. 李… III. 计算机科学-国际学术会议-文集 IV. TP3-53

中国版本图书馆 CIP 数据核字(2008)第 106078 号

厦门大学出版社出版发行

(地址:厦门大学 邮编:361005)

<http://www.xmupress.com>

xmup @ public.xm.fj.cn

沙县方圆印刷有限公司印刷

2008 年 7 月第 1 版 2008 年 7 月第 1 次印刷

开本:889×1194 1/16 印张:99.5

插页:3 字数:3367 千字

定价:300.00 元

如有印装质量问题请与承印厂调换

WELCOME MESSAGE

On behalf of the organizing committee and the program committee, we are happy to welcome your participation in the third International Conference on Computer Science & Education (ICCSE2008), held in Kaifeng, China. The conference aims to create a forum for scientists and educators to present their newest computer technologies and engineering expertise, and to share our experience in computer education. We selected the best of all the high quality papers submitted throughout the world and published them in the conventional collection.

Kaifeng is the historic ancient city in a beautiful flower park. It has an amazing geographical location, mild climate, great transportation services, advanced science and technology, prosperous economy and high rated academic institutions. It is one of the two-way key cities of the Asia-Europe Transcontinental Bridge, a member of Cities Group, and one of the three major cities in the primary traveling route along the yellow river in Henan province.

We appreciate the efforts made by those who organized this convention and their contributions, Henan University and Xiamen University and convention staff as well. Specifically, we would like to thank the IEEE Automatic Control Council, Singapore, and University of Melbourne, Australia, and University of Virginia, U.S.A, and National University of Singapore, and Xiamen University, China and New Summit (Xiamen) Computer Education and Development Center, China.

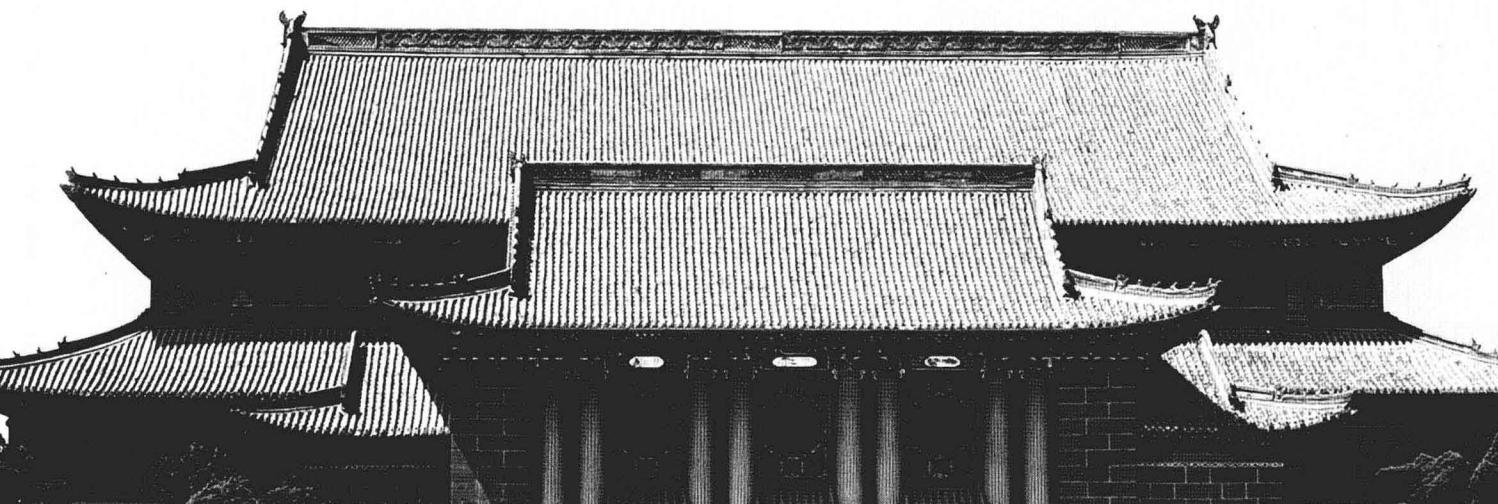
We would also like to thank to all who made the convention possible and most importantly, to the authors and presenters.

Hope you enjoy the beautiful and historical city of Kaifeng, and have great benefits from this convention.

Yuan Kaibang Chairman of convention

Zhang Fengxiang Chairman of program committee

Li Maoqing Chairman of organizing committee



Contents

Artificial Intelligence

- A-01 A New Similarity Relation to Handle Missing Values YIN Xuri (3—6)
A-02 Aggregating Alerts based on Feature Similarity and Genetic Clustering GUO Fan, XIONG Liqiong and YU Min(7—11)
A-03 Expert system of Fault Diagnosis Based on Neural Network and Genetic Algorithms for Missile WANG Fan and WU Duosheng(12—15)
A-04 Particle Swarm Optimization Algorithm for Weapon-Target Assignment Problem GAO Shang(16—19)
A-05 Vision-based Anti-forgery of Chinese Paintingsusing MRF GUAN Xiaohui, YUE Guoying, QIAN Yaguan(20—23)
A-06 THE GRADED CONSTRUCTION OF NEURAL-NETWORKS LI Jiangping, PAN Baochang, WEI Yuke(24—26)
A-07 Clustering Algorithm Research Based on SOM CHEN Xumin, ZOU Kaiqi, CHEN Xumin, FU ChangQing(27—31)
A-08 Fast Circle Object Detection Using Gradient-Orientation based Clustering WU Jianping, LI Jinxiang(32—35)
A-09 Cylinder Mix Machine's Tube Body of Crack Growth Rate and Life Prediction Research YAN Zhixiang and RUAN Xiangfa(36—41)
A-10 Classifiers Combination for Off-Line Handwritten Chinese Amount in Words Recognition WANG Xianmei and CUI Xiaoyi(42—46)
A-11 Application of Ant Colony Algorithm in Multi-join Query Optimization GUO Congli, LI Xiang, ZHU Li(47—50)
A-12 A Collaborative Learning System Based on Learners' Individuality Using Multi-agent YIN Fan(51—55)
A-13 Study on Clustering of Multi-Targetin Air Combat Based on FCM ZHANG Kun and ZHOU Deyun(56—59)
A-14 A Deterministic Algorithm for Globally Solvinga Class of Fractional Problems JIAO Hongwei, GUO Yunrui,CHEN Yongqiang(60—62)
A-15 FNN Model of House Price Prediction Based on Hedonic Price Theory LIU Jianguo , WU Weiping(63—66)
A-16 The Improved ClusterSVM for Large Scale Classification Set to Credit Risk Evaluation YA Liqi, WEI Junzhang(67—69)

- A-17 An Approach Based on BP Neural Network and Optimal Features for Classifying Single-Trial EEG ZHANG Aihua , ZHANG Xinwen and YANG Xiaohua(70—73)
- A-18 Test-Suite Reduction Based on Ant Colony Algorithm with Mutation Index HUA Li, DING Xiaoming and QIU Yuhui(74—76)
- A-19 Research on Decision Tree Algorithm Based on Rough Set in Medical System HUANG Yuying , YANG Qing and WU Tianzhen(77—80)
- A-20 Missing Value Treatment of the Data Mining Based on Bayesian Principle QIU Zhao, CHENG Mingrui, HUANG Jun(81—84)
- A-21 A New Multi-Dimension Ontology Mapping Algorithm Based On Similarity WU Ya-Juan , CHEN Yao , SHANG Fuhua(85—88)
- A-22 Genetic Algorithm Optimization on Crane Transmission in Neural Network XI Pingyuan and GUI Yan , WANG Bing(89—91)
- A-23 Facial Expression Recognition Based on Active Shape Model and Gabor Wavelet JIANG Bin , YANG Guosheng , LI Zhiqiang(92—95)
- A-24 Generic Depth-first Searching Algorithms XIE Qingsong , WANG Yanbing(96—100)
- A-25 A multi classification method of Gene Expression Microarrays Data based on extended Signal-to-Noise Ratio and SVM LIU Wei , LUO Linkai , ZHANG Qiushui(101—103)
- A-26 Study on Project Tendering and Bidding Management Based on Artificial Neural Network YANG Zhongxuan(104—107)
- A-27 A Comparison of Two Models for Mining Named Entity Pairs from Web Corpus YAO Jianmin , Guo Lei , Zhou Meiling , ZHANG Jing(108—110)
- A-28 Blind Signal Separation by Independent Subspace Analysis LI Rui , CHEN Baofeng (111—116)
- A-29 A Hybrid Approach of Neural Network with Particle Swarm Optimization for Short Term Load Forecasting WANG Xuan , LV Jiake and JIANG Wei , WEI Caofu and XIE Deti(117—121)
- A-30 Implementation of Mining Learners Profiles for Web Intelligent Learning System with Association Rule LV Jiake , WANG Xuan and JIANG Wei , WEI Chaofu and LIU Hongbin(122—127)
- A-31 Study on Application of D-S Evidential Theory in Traffic Volume Information Collection CAI Changqing , YANG Zhaosheng , CHEN Xin (128—131)
- A-32 A Textile Color Management Based on the Extraction and Classification JI Qiaoling , QI Weimin(132—136)
- A-33 The Application of Macro-Economic Prediction Based on Gene Expression programming YAN Jingfeng,ZHANG Bopingand XIONG Delan(137—139)
- A-34 A modified binary ant colony algorithm in discrete domains for the global optimum of function LIU bo , LI Huiguang , WU Tihua and ZHANG Qingbin(140—144)
- A-35 Discriminative Learner for Spam Filter LEI Guohua , LI Jun , HE Xiaoning , QI Haoliang , AN Bo(145—148)
- A-36 Design and Realization of Remote Control System based on Hand Recognition Interface SUN Yu , LIU Yun and GAN Zhijie(149—153)
- A-37 A Model of Intelligent Virtual Avatars for Online E-learning LIU Zhen (154—157)
- A-38 Granular Computing For Association Rules Mining DUAN Longzhen , LI Ren and XIAOHOU Zhenyu , HUANG Longjun(158—161)
- A-39 A Multi-Cameras Surveillance System Based on Position Match and Color Code PAN Wei , ZOU Yi(162—164)
- A-40 The Evaluation of Enterprise Credit Using Multi-category Hierarchical SVM ZHANG Jingjing , DONG Huailin , WU Qingfeng , WEN Jie(165—169)

- A-41 An Improved Algorithm for Solving VRPTM Problem LI Taoshen, WU Jingli(170—173)
 A-42 Study on Checking Attendance System Based on Face Recognition LANG Liying, HONG Yue (174—176)
 A-43 Research of a New Immune Intelligent Control System Based on an Antibody Network on a Robot YU Shanshan, ZHANG Fengxiang(177—181)
 A-44 Partition and Density-based Clustering for Moving Objects trajectories LIU Jinpeng, ZHANG Yanling, LIU Gang(182—187)
 A-45 A Novel Enterprises Credit Scoring Method Base On Random Forest WU Jing, DONG Huailin, WANG Wei(188—192)
 A-46 NRSC: A Density-Connected Algorithm for Detecting Non-Redundant Subspace Clusters WU Junjie, DONG Huailin, ZHENG Yuhui, GUO Yang(193—198)
 A-47 Research on Cultivation of Innovative Software Talents DONG Huailin, WU Qingfeng, LIU Han(199—202)

Computer Application

- B-01 A New Remote User Authentication Scheme Using Smart Cards LI Huiqin and XU Lili (205—208)
 B-02 Simulation of Development Platform on Computer Monitor Systems MA Yuchun and LIU Jiemin(209—212)
 B-03 Design and Implementation of an Improved Real-Time HDR Lighting Workflow in Virtual Environment ZENG Ke, Qiu Hang and CHEN Leiting (213—219)
 B-04 Query Expansion in Cross-Language Information Retrieval Using Latent Semantic Analysis BI Jianting and SU Yidan (220—224)
 B-05 Research and Application of Quick Inter-Visibility Algorithm in Forest Fireproofing Command System HUANG Zhiqiang and WANG Xiaohui, HAN Yuexia, ZHOU Mao(225—228)
 B-06 A Parallel Iterative Hybrid Genetic Algorithm For Solving MDVRPTW HONG Lianxi, XU Min(229—234)
 B-07 Design and Implementation of Large-scale Distributed Video Surveillance System YANG Hongyun, CHEN Xuhui, HU Ruiming and CHEN Jun(235—239)
 B-08 Information Security System Design Based on Frame Relay Network YANG Liuqing, FENG Jian(240—245)
 B-09 Design & Implementation of the Crawling Method of Increment Updating FEI Cheng(246—250)
 B-10 The Design and Implement of the Multi-waveform Pulse Electroplating Power Based on ARM HE Hongjiang, WANG Shuangyou(251—253)
 B-11 The construction and implementation of ontology based courseware resource LIANG Ye, HONG Bao, LIU Hongzhe, LI Guofeng (254—258)
 B-12 Analysis on Three Dimensional Computational Fluid Dynamics Software Based on KIVA-3V Code LIU Yongfeng, ZHANG Youtong and GOU Chenhua(259—263)
 B-13 ERP Tenancy Platform Research XU Yun, CAO Kai(264—268)
 B-14 Research on Key Technologies of Variant Design Platform for Complicated Product ZONG Chi, WU Qingming, HU Guoming and ZHANG Zhiqiang(269—273)
 B-15 Design and Implementation of VGA Character Displaying System with FPGA WANG Liang, GUAN Yong, LIU Jin, WU Minhua and LIU Xumin(274—277)
 B-16 Covert Channel Elimination Technique in Java Source Code Based on Security Type System

	.....	CHEN Bo, YU Ling(278—282)
B-17	Development of Character Device Driver in Embedded Linux System	..... QU Linjie and ZHANG Zhaobing(283—285)
B-18	A Research on Rich Media Markup and Retrieval	..... LI Ning, ZHANG Yunfeng, QIN Wenzhe and WEN Jiafei(286—290)
B-19	A Novel Algorithm of Eyes Location in Color Images	..... JIAO Chunyan, XU Yan(291—295)
B-20	The Research of the Real-time Human Eyes Detection and Tracking	..... HUANG Jiyong, LIN Kunhui and ZHOU Changle(296—299)
B-21	Virtual Audio Lab Based on VRML	..... LIN Xuefen, ZHOU Xin and SONG Wei(300—303)
B-22	Implementation of a Sentence-Level Input Method on Smart Phone	..... WU Xiaochun, WU Xian, LI Peifeng and ZHU Qiaoming(304—308)
B-23	DSDQE: An Self-Defined Query Engine Based on Domain Data Model	..... DENG Xiaofei, ZHAO Lei and YANG Jiwen(309—313)
B-24	Level Set Algorithm for Linear Multiplicative Problem	..... YIN Jingben, GUO Yunrui, JIAO Hongwei and CHEN Yongqiang(314—316)
B-25	The Design of the ETC Communication Equipment based on the DSRC Technology	..... CAI Changqing, DU Bo, YU Weijie(317—321)
B-26	A Trust Network-based Collaborative Filtering Recommendation Strategy	..... LU Zhubing, TANG Yan and QIU Yuhui(322—325)
B-27	A Research in GPS/DR Integrated Vehicle Location System Based on Map Assisted positioning	..... CAO Jie, ZHANG Huining, LI Yu, REN Chongyu(326—330)
B-28	Computing PI to Understand Key Issues in Multi-Core Programming	..... PENG Weilin, CHEN Hu and XI Jianqing(331—336)
B-29	An Improved Speech Endpoint Detection Based on Box-counting Dimension	..... GAO Hongbin, LIU Jie, GAO Kai and ZHANG Yongqiang(337—340)
B-30	Implement of Dynamic Security Policy Based on an Open Synthetical Security Model	..... LEI Xinfeng, LIU Jun and XIAO Junmo(341—344)
B-31	A Textile Flaw Detection Based on Wavelet Reconstructions	..... YIN Yean, LEI Jiang(345—348)
B-32	Research and Implementation of a Message-Level Web Service Security Model Based on Security-Policy	..... ZENG Yi, SHEN Qinghua, CHEN Chuanchao, CHENG Quanliang, WANG Yanli(349—353)
B-33	An Integrated Network Management Model Based on CORBA and Mobile Agents	..... WANG Yujian, MA Xiaojun and ZHANG Ruizhe(354—359)
B-34	A Feasible Algorithm for Solving a Class of Multiplicative Problems with Exponent	..... YIN Jingben, CHEN Rongjiang, GUO Yunrui and CHEN Yongqiang(360—363)
B-35	Implement of Component Application System Based on Java Technology	..... SHEN Hong, LIU Zhenheng, ZHANG Jingzhen and LI Tiangong (364—367)
B-36	Research for Embedded Surveillance Platform in Special Environment	..... GUAN Yong, SHANG Yuanyuan and ZHANG Jie(368—372)
B-37	Reform of Medical Information Retrieval Teaching in the 21st Century in China	..... CHEN Hongqin, ZHU Ning and LIANG Ping(373—378)
B-38	An example-based human body Modeling Method for Garment	..... LIU Zhengdong, CHEN Chunli and JIANG Yan(379—383)
B-39	Predictable Real-time Java Model and Memory Management	..... JIN Yongxian(384—388)

B-40	Research on the Query Condition of Natural Language in Database	ZHENG Fengbin, ZHENG Shanshan and GE Qiang(389—393)
B-41	Study on Contextual features of the Chinese syllable for speech synthesis	JIANG Baochen and ZHENG Yamin(394—396)
B-42	Application of Web Services in AGV Routing Management System	GAO Yuan, LI Dancheng, ZHU Zhiliang and HAN Chunyan(397—401)
B-43	A Survey of Image Enhancement Algorithms Based on Retinex Theory	ZHANG Guodong and YAN Peiyu, ZHAO Hong and ZHANG Xin(402—409)
B-44	A New Model of Enterprise Credit Risk Assessment Based on BP Neural Network	GUO Yang, DONG Huailin, ZHENG Yuhui and WU Junjie, WU Jing(410—414)
B-45	A Study on the Personalised Learning Strategy based on the Forgetting Curve	MIAO Yuan(415—423)
B-46	Explanation of Computer Accuracy	LI Ruyuan, LI Chen and SHI Leina(424—425)
B-47	The stability analysis for fuzzy controller of uncertain varying time delay system	YU Zhongcheng and YU Hongtao(426—428)

Computer Architecture

C-01	Efficient Hardware Design for the Computation of Very High-Precision Exponential Function Used in LNS Subtraction Unit	CHEN Ruilin and CHEN Chichyang(431—437)
C-02	Thread Modeling in Java Virtual Machine	WU Weimin, SU Qing and LI Kailun(438—441)
C-03	Tri-state Light Decoder of Ternary Optical Computer	ZUO Kaizhong, JIN Yi, XUE Tao and YAN Junyong(442—444)
C-04	A Flexible Multithreaded Programming Model and its scheduler for irregular workload	PENG Jiangfeng, CHEN Hu and XI Jianqing(445—455)
C-05	Software Implementation Method of LNS Addition/Subtraction Computation	CHEN Ruilin and CHEN Chichyang (456—460)

Control Technology

D-01	Self-Restoring Dual Watermarking Algorithm Based on the Web	WU Xinyi(463—467)
D-02	A New Model of the Harmonic Control Based on Hadamard Product	ZOU Yun and LIU Xinjin (468—473)
D-03	An Adaptive and Fragile Image Watermarking Algorithm Based on Composite Chaotic Iterative Dynamic System	LIU Xinqiao and LIU Changsheng(474—477)
D-04	Research on Dynamic characteristics of Electronic Power Steering	YU Jun(478—481)
D-05	The Improvement of Kalman Filtering algorithm in Digital Protection	RUAN Jianguo and CHEN Jiong(482—486)
D-06	On-line Evolution of Web Service-flow Based on Process Mining	CAO Yongzhong, DING Qiulin and LI Bin(487—492)
D-07	Research on communication mechanism of cooperated multi-robot	

	.....	ZHAO Dong and ZHENG Shixiong(493—498)
D-08	Simulation of Automotive Active Suspension with Fuzzy-PID Control	..... HAN Yuping and SUN Tao(497—499)
D-09	Design of Control System for High Speed Bearing Testing Machine Based on Interpolation Online Fuzzy Algorithm	..... XU Yingxi, LI Chuanfeng and SHU Yunxing(500—503)
D-10	Design and Implement of a Monitoring and Controlling (T&C) System Based on PC/104 Bus CPU	..... ZHANG Baoling, LI Xiaobo, WANG Tianxiang(504—506)
D-11	Research on Temperature-control of analyzer of gene amplifier (PCR)	..... PAN Aixian, ZHANG Min and WANG Guangyi(507—511)
D-12	The Design and Implementation of the OPC based Multi-campus Oriented Solar Energy Monitoring System	..... CHEN Guohua, TANG Yong, LUO Yemin and ZHAO Chunfang(512—515)
D-13	Stability of discrete-time switched linear system with polytopic perturbations	..... ZHANG Damin,ZHANG Xiaoli(516—520)
D-14	A television-guided anti-ship attack UAV Guidance Law	..... LI Zhao-qiang and ZHOU Deyun(521—525)
D-15	Design and Realization of Automatic Control System on Feeding Vitriol in Water	..... CAI Limin, YANG Xiaolin and KONG Li(526—529)
D-16	Reduced-order L_2 - L_∞ Filtering Design for Linear Time-invariant Continuous-time Systems	..... WANG Wenliang and ZENG Jianping (530—533)
D-17	On Coordination Control for A Class of DEDS	..... ZHANG Yiqun and YANG Qiu (534—537)
D-18	Digital PID Controller Design for Discrete-time Systems based on Window H_∞ Norm	..... FU Rong and ZENG Jianping(538—542)
D-19	Reduced-order H Controller Design Observer-based for Systems with Parameter Uncertainty	..... CHEN Gao and ZENG Jianping(543—546)
D-20	Robust Filtering for a Sort of Uncertain Discrete-Time Systems with Missing Measurements	..... WEN Chuanbo and SHANG Dongfang(547—552)
D-21	A New Certificate-Based Proxy Blind Signature Scheme with Batch Verification	..... NONG Qiang, WU Shunxiang(553—557)
D-22	Forensic analysis of mobile phone	..... ZHOU Zhiwen, WU Shunxiang(558—562)
D-23	Individual Information Management System Based on Symbian OS	..... ZHENG Shaoshuai and WU Shunxiang(563—566)
D-24	IPO Underpricing and investor sentiment—base on the SME Board under the Circumstance of the Full	..... CHEN Shanang and GUO Shiyu(567—573)
D-25	Research and Realization of Multi-language (China, Japan, South Korea) Encoding	..... PAN Jianhua, WU Shunxiang(574—577)
D-26	Research on full-text indexing technology for documents based on COM components	..... WU Wanzhi, WU Shunxiang(578—581)

Database Technology

E-01	An Object-Oriented Knowledge Representation Based on Relation Database HUANG Zhiqiang, YUE Yan and BAI Guang(585—587)
------	--	--

E-02	An Improved Method for Database Encryption Based on the Chinese Remainder Theorem	DAI Guoyong, CHEN Qingzhang, XIA Ming(588—590)
E-03	An Improved PKC Based Watermark Algorithm for Relational Databases	CUI Xinchun, CUI Haiting(591—594)
E-04	A Clustering Algorithm for Multiple Data Streams Based on Spectral Component Similarity	ZOU Lingjun, CHEN Ling, TU Li(595—603)
E-05	An Improved Apriori Algorithm	HUANG Jinjing, ZHAO Lei and YANG Jiwen(604—607)
E-06	A XML Oriented Mandatory Access Control Based on Hierarchy Security Labels	ZHANG Dongzhan, GUO Youxian and WU Yashuang(608—612)
E-07	An Efficient Algorithm for Mining Frequent Item over Data Streams Based on Sliding Window	KUANG Zhufang, YANG Guogui, XIN Dongjun(613—618)
E-08	STAT Safe Construction Based on Agent in the Environment of Database	YU Yuanhui, LI Yongmei and ZHANG Zidong (619—622)

Network Technology

F-01	Study on Construction and Optimization Model of Network Course	QU Zhiming(625—628)
F-02	The Fault Diagnosis of Alternating Group Graphs under the Comparison Model	ZHOU Shuming(629—635)
F-03	Comparative Research of XML Compression Technologies	ZHANG Sheng, BAO Xiaoling, SHU Jian and CHEN Sha(636—645)
F-04	Research and Implementation of a New Web Information Filtering Algorithm	XIONG Jianying, XU Jianfeng (646—649)
F-05	Transport Layer Internet Mobility based on Simplified Dynamic Address Reconfiguration	LIU Jiemin, MA Yuchun(650—655)
F-06	Rethinking Middle Radiation Approach of Computer Networks Teaching	LIU Jiemin, MA Yuchun(656—659)
F-07	Secure Information Exchange Based on Chaotic System within Local Network	TAO Tao, GAO Tiegang (660—665)
F-08	A Collaborative Architecture for Post-IDS Alert Analysis	XU Hui, XIAO Debao, XIA Xue and CHANG Yanan(666—671)
F-09	Preliminary Design of Linux Load-Balancing Based on Genetic Algorithm	GE Yan(672—675)
F-10	A Composition Verification Model For Semantic Web Services	ZHU Ying, HUANG Guimin(676—680)
F-11	A New Clustering Algorithm Based on Rough Sets for Wireless Sensor Networks	ZHAO Juanjuan, GUO Qingping, LUO Jun (681—685)
F-12	Survivability Issues of Ad hoc Network and Its Design Challenges	WANG Haitao, SONG Lihua(686—691)
F-13	Research on Fault Tolerance for Data Communication Network of CBTC Based IEEE802.11	MA Ziyan(692—695)
F-14	An Active Services Discovery Mechanism Based on ECA Rules of Active Database	WANG Shunyan, WU Meng, JIANG Desheng(696—701)
F-15	A Scheme of Extending RSVP for QoS Support in HMIPv6-Based Networks	ZHAO Yujiao, NIE Gang(702—705)

- F-16 Improved Clone Routing Algorithm for the Application Level Multicast WANG Dezhi, CUI Xinwei, GAN Jinying and WANG Deyu(706—710)
- F-17 Analysis of Network Security in Electric Power Enterprise and Its Countermeasures ZHU Enguo , ZHAO Bing , WU Guoliang , YANG Gongxun(711—714)
- F-18 An Intrusion Detection Model Based On Danger Theory and Mathematical Statistics WANG Chunzhi, PING Qi(715—719)
- F-19 A Semantic P2P Overlay Networ WANG Zhixiao , XIA Zhanguo , XIA Shixiong(720—725)
- F-20 A P2P Internet Video Broadcast System Over Pastry HE Lei, GUO Yunfei, LIU Wenbo(726—733)
- F-21 A Model for Dynamic Access Control of XML Documents Using Semantics TAO Peng, JIANG Minghua and HU Ming (734—737)
- F-22 An Adaptive Cross-Layer Scheduling Algorithm for IEEE 802.16 BWA System LI Xiuyuan, WU Xiaojuan, LI Wenming , ZHANG Yuanyuan(738—742)
- F-23 An Evaluation Model of Computer Network Topological Optimization Based on Rough Set and Fuzziness LIU Zhaobin, LIU Wenzhi, LI Jinxiang(743—747)
- F-24 A Method for Estimating Distances of Inter-domain Nodes WANG Zheng, ZHANG Xinchang, LUO Wanming and YAN Baoping(748—753)
- F-25 Research of Service and Application of 4G Technology CHENG Chuanqing, CHENG Chuanhui, QING Xiuhua(754—757)
- F-26 A Transitional NETCONF-Based Network Management Design CHEN Limiao, XIAO Debao and CHANG Yanan(758—762)
- F-27 A Study on Videoconference System Based on H.323 Protocol YIN Yean, LEI Jiang(763—766)
- F-28 Integration of Parlay X Web Service with Mobile Agent WANG Guoli, TANG Shoulian(767—771)
- F-29 Evaluation and Analysis of E-commerce Performance Based on DEA/AHP Model LV Guoliang, PENG Long(772—776)
- F-30 Distributed Key Management Based on Elliptic Curve Cryptography for Mobile Ad hoc Network ZHANG Yuchen , LIU Jing, WANG Yadi, HAN Jihong(777—780)
- F-31 A Novel Multipath Routing Protocol in Ad hoc Networks YUAN Ping, XUE Ran, JI Ce, CHEN Hong(781—785)
- F-32 A Network Security Model Based On Environment Classifications LIU Yihe(786—789)
- F-33 Parallelization of the Electromagnetic Simulations on Grid-Enabled MPI Library LI Min , ZHOU Jian (790—793)
- F-34 Study on Uyghur Websites Search with the help of GoogleSearch Yasen · AIZEZI, WU Shunxiang, SHENG Guodong(794—798)
- F-35 The stability of analysis complex dynamical networks with uncertainties ZENG Chuicheng, SUN Hongfei(799—803)
- F-36 The Design and Implementation of Routing Tracer Based on Multi-protocol WANG Jingjing, LIU Jingsen (804—806)
- F-37 Study on Architecture and Routing Selection for WDM Optical Network ZHANG Ning, BAO Hong, WANG Kai(807—810)
- F-38 Research on Optical Burst Switching Network ZHANG Ning, BAO Hong, Wang Kai, WANG Hongxiang(811—815)
- F-39 Role-based Access Control Model for Multicast in MANET MU Haibing, ZHANG Changlun , ZENG Ping(816—819)

- F-40 Neural Network Sliding Mode Control Based on Passivity Theory for Robot WANG Hongrui, FENG Zhanfang(820—823)
F-41 Behavior Characteristics and Models of P2P File-Sharing System Based on Maze CHEN Baogang, XU Yong and HU Jinlong(824—829)

Computer Graphics

- G-01 Image Inpainting Based on Improved Tensor Diffusion Model CUI Xuehong, PAN Zhenkuan and WEI Weibo(833—837)
G-02 Noise Reducing for Medical Image Based on Improved Self-Adaptive Filter ZHU Hong, SUN Weizhen, WU Minhua, GUAN Guixia, GUAN Yong(838—842)
G-03 A Fragile and Adaptive Image Scrambling Algorithm TANG Qian, LIU Changsheng(843—847)
G-04 A Method of Image Enhancement Based on Wavelet Transform HU Youbin, CHEN Baihua, WAN Wenhui, LIU Zhiming, WANG Chengjian(848—850)
G-05 An Improved 3D Model Simplification Based on Edge Collapse LUO Dan, TAN Guoxin(851—854)
G-06 A Retrieval Algorithm of Adjusting Automatic the Weight of Multi-features GUO Xiaojuan, WANG Yufen, LI Changjiang and CHENG Jifu(855—859)
G-07 Several mathematical methods applied in Image Processing ZHOU Hongyu, ZHAO Zhe and WANG Lixin(860—864)
G-08 The research of sketching style generation WANG Huiqin(865—868)
G-09 A Kind of Effective Fingerprint Recognition Algorithm and Application LIU Wenzhou, MENG Xiangping, LI Linna and CAI Changqing(869—873)
G-10 Accurate Measurement Study Based On Digital Image Processing WANG Shijun, MU Ping'an, DAI Shuguang, LIU Weiwei(874—877)
G-11 A People Tracking System Based on Binary Encoding of Continuum-Removed Color-Histogram PAN Wei, LIN Shu(878—881)
G-12 Using Geographic Information Systems to Water Resources Management and Quality Assessment J. J. Huang, P. P. Qi, Q. H. Feng, F. zhang(882—885)

Software Engineering

- H-01 Pattern-Oriented Software Development for Component Reuse WANG Chengjun(889—892)
H-02 The Self-Adaptive Software Process Model Design Based on the “Service-Role-Rule” CAO Baoxiang and XIA Xiaona(893—898)
H-03 GAT’s Formalization and Activity Optimization Selection of Selft-adaptive Architecure XIA Xiaona and CAO Baoxiang(899—904)
H-04 Programming For RESTful-SOA XIONG Haoyi, HE Lingli(905—907)
H-05 Numerical Simulation Research of Microcosmic Flaws in Masonry Arch Bridge NING Jincheng, OU Yihong(908—911)

- H-06 High-confidence Embedded Software Development Based on UML2.0 Communication Diagram and Temporal Logic ZHANG Shu, RONG Mei, ZHANG Guangquan, CAO Jinming(912—916)
- H-07 Apply Unascertained Theory to Study Software Reliability Modeling CHEN Wen, SUN Shengjuan, WAN Yajing(917—920)
- H-08 Work Allocation Subdivision Based on Precedence Hierarchy Graph DAI Liping , HUANG Longjun, LIU Kongtao(921—923)
- H-09 Automated Software Component Synthesis and Reuse via Category Theoretic Computations WANG Jinquan , ZHENG Yujun(924—928)
- H-10 Research on the Component-based Compositional Timing Analysis for Embedded Real-time Software LIN Miao , RONG Mei, ZHANG Guangquan(929—935)
- H-11 A Method For Verifying The Consistency of Dynamic Behavioral Models of Real-time Software Based on UML/SPT LIU Chuanhui, RONG Mei, ZHANG Guangquan(936—941)
- H-12 Software Components Composition Based on Matching ZHANG Chi(942—946)
- H-13 A Method Comparing Remote Procedure Call with Message-Oriented Middleware Quantitatively on the view of Software Architecture LI Lu, RONG Mei, ZHANG Guangquan(947—951)
- H-14 Towards a Comprehensive View of Software Process Engineering ZHU Zhou and XU Renzuo(952—957)
- H-15 An Applied Essential Use Case Analysis Technology in Rational Unified Process LEI Gang, CHEN Haiyuan, HUANG Longjun, HUANG Minghe and JIE Anquan(958—963)
- H-16 A Research of Method Creating the Integrated Testing Cases ZHANG Zhonglin, JIA Limin and MA Haiyun(964—966)
- H-17 A Mapping from Software Architectural Description Language XYZ/ADL to UML2.0 RONG Mei(967—973)
- H-18 A Formal Description and Fuzzy Retrieving Model of Component DING Xiaoming, CHEN Wen and QIU Yuhui(974—977)
- H-19 A Tool Assist Bug-Tracking System in LAMP Development ZHANG Ruigang(978—982)
- H-20 Research on Information System Requirment Elicitation Method Based on Ontologies WANG Cong, LIU Jun, WANG Zhixue(983—987)
- H-21 An Operational Model for Mobile Ambients LIN Rongde, XI Jianqing and CHEN Baogang(988—995)
- H-22 High-level Language Recovery Based on Dataflow Analysis FANG Xia, YIN Qing, JIANG Liehui, HE Hongqi, LIU Tieming(996—999)
- H-23 An Overview of Generalized Program Slicing WU Fangjun and YI Tong(1000—1004)
- H-24 Tool Support for Measuring Complexity of UML Class Diagrams YI Tong(1005—1008)
- H-25 The Design and Implementation of Algorithmic Based on Calculation Frame LI Yunqing(1009—1013)
- H-26 Software Test Process Measurement and Control Model based on SPC Technology YU Lei, XU Bing and LI QingBao(1014—1018)
- H-27 Development of Loading Training System Based on Software Mode for Rocket Launcher YANG Qingwen, FANG Shidong, YANG Guang, TONG Decheng, WU Shuo(1019—1022)
- H-28 The Swing Architecture based on JFC Component Design HUANG Zhili, YAN Ruohu, LIU Lizhao and LI Maoqing(1023—1027)
- H-29 The Roles and Responsibilities Based on CMM in Small Software Enterprises HE Binggeng, LI Kaili(1028—1030)
- H-30 The libraries of the present age should how to reply the influence and impact of search engines YANG Bingtu , WU Shunxiang(1031—1033)

Systems Engineering

- I-01 The Multimedia Teaching Platform Based on Digital Campus LIU Shengjian(1037—1040)
I-02 The Design of Remote Selection Course and Management system for the Laboratory LUO Wanfa , HU Weisheng and LAI Zhinan(1041—1043)
I-03 Lattice Boltzmann Simulations of Gas Migration Law in Two-Dimension Goaf of Fully Mechanized Coal Caving Mining Face LU Qiuqin , WEI Xiangang(1044—1047)
I-04 Computer Simulation on Methane Gas Emitting and Overspreading and Congregating in Underground Coal Mine LU Qiuqin , HUANG Guangqiu(1048—1053)
I-05 Software Quality Comprehensive Evaluation Model Based on Rough Set Theory and Grey Theory PANG Qinghua , CHENG Chao(1054—1058)
I-06 On the Quantification of Fuzzy Numbers ZHANG Quan , FENG Wenjia , SHI Yanling(1059—1062)
I-07 A New Approach for Supplier Selection with Interval Information ZHANG Quan , SHI Yanling(1063—1066)
I-08 Application of GIS in the decision system of dynamic location in reverse logistics WEI Mingming , LI Maoqing , WU Miliang , Wang Ying(1067—1070)
I-09 Forecast For High Frequency Data of Stock Market Based on Wavelet Transformation LEI Hong , LI Zhi(1071—1076)
I-10 The Construction of Human Resource Requirements Analysis Conceptual Model Based on HCM GAO Lu , YUE Qiangbin , ZHANG Xueyan(1077—1081)
I-11 Scheduling Algorithm of Non Real-Time Applications of the Open Real-Time System JIN Yongxian , HUANG Jingzhou and WANG Jianguo(1082—1086)
I-12 Maximizing deviation method for interval-valued intuitionistic fuzzy multi-attribute decision making XU Xin , WANG Weize , WANG Zhoujing(1087—1092)
I-13 Decision Tree Classification Algorithm and Research on Its Improvement ZHANG Yihua , LI Maoqing , WANG Yuan(1093—1096)
I-14 Intelligent Human Resource Management System Based on Set Pair Analysis and Grey Extension Theory YANG Sikun(1097—1100)
I-15 A New SOC Developing System Designed with OR1200 Processor ZHENG Huawen , LI Xiaochao , GUO Donghui(1101—1104)
I-16 The application of Modern Logistics Technology in the military logistics and distribution HOU Guofeng , HUANG Zhili , WEI Mingming , LI Maoqing(1105—1110)
I-17 The Application of Decision Tree in Anti-Fraud Management of Credit Card WEN Jie , LONG Fei,DONG Huailin , ZHANG Jingjing(1111—1115)

Other Advanced Technology

- J-01 Simulation of Turbo Code Performance for Deep Space Communication ZHANG Guihua , JI Hongbing(1119—1123)

- J-02 Cryptography Algorithm Description Language GUO Jia, YIN Qing, JIANG Liehui, HE Hongqi(1124—1127)
- J-03 A Scheme of Data Storage Based on Fountain Codes CHEN Haiyan(1128—1130)
- J-04 On Arbitrary Phases by a Single Query in Quantum Searching ZHONG Pucha and BAO Wansu(1131—1134)
- J-05 XML Query Technology Based on Code Compression JIANG Yan, WANG Guoren(1135—1138)
- J-06 Development of CAD/CAM Integration System for Formed Cutter ZHENG Youyi, GAO Aihua(1139—1142)
- J-07 Design and Implementation of an Improved Priority Ceiling Protocol for μC/OS-II LIU Peng, DING Enjie, WANG Ke(1143—1146)
- J-08 Simulation Research on Dynamical Performance of the Conveyor XI Pingyuan, Gui Yan, Wang Bing(1147—1150)
- J-09 A New Fast Public key Cryptographic Construction Based on CRT and NTRU LI Xinshe, ZHANG Lei, ZHANG Ying and ZHAO Zhihui(1151—1153)
- J-10 Measuring and Estimation Methods on Resonant Frequency of Vehicle Steering System WANG Hong, HU Wei(1154—1157)
- J-11 Utilization of Computer-Assisted Learning for Quality Improvement of Chinese-Foreign Cooperatively-Run Schools ZHOU Mi, Louis C. Vaccaro, LIU Zhi(1158—1166)
- J-12 Fuzzy Optimization of Lift Mechanism in Tower Hoist using GA-based neural network WANG Bing, XI Pingyuan(1167—1170)
- J-13 Modelling and Simulation of the in-tube cooling Process of Supercritical R744 ZHANG Xianping, SHEN Henggen, FAN Xiaowei, Wang Fengkun and ZHENG Huifan(1171—1175)
- J-14 A Feasible Method of TDMA Slots Assignment in Ad Hoc Networks LIN Shuyi, YANG Qi, TANG Biyu, SHI Jianghong(1176—1180)
- J-15 Least Squares Support Vector Machines With Wavelet Transform for Power Load Forecasting CHEN Qisong, WU Yun, CHEN Xiaowei, ZHANG Xin(1181—1186)
- J-16 A Numerical Procedure for Solving a Class of Multiplicative Problems JIAO Hongwei, GUO Yunrui, CHEN Yongqiang(1187—1190)
- J-17 IEEE-1355 Communication Bus Router Design in Rugged Environment LIU Jin, GUAN Yong, CHEN Jinqiang, WU Minhua and LIU Xumin(1191—1195)
- J-18 Multi-wavelet Analysis Algorithm of Grinding Wheel Dynamic Signal YANG Xiaohong, GUO Shuxu, ZHANG Yonghong(1196—1200)
- J-19 Design of Wireless Sensor Networks Node Based On TinyOS Operating System QIAO Yingxu, ZHANG Zhibin, YANG HongGu(1201—1204)
- J-20 The Research of Movement Control Policy Based On Multi-tier Mobile Wireless Sensor Network XIONG Liqiong, PENG Yali, ZENG Xialing and YU Min(1205—1211)
- J-21 Research on Component-based ERP System LIN Yue Xiao, HE Song and CHANG Huiyou(1212—1216)
- J-22 HMM-based audio/video mixed data mining algorithm ZHANG Ajun, XU Yun, WANG Xun(1217—1222)
- J-23 A Method of Identifying Airdrome Runways based on the Spectral and Structural Feature GUO Jianxing, LIU Songlin, XU Honggen and LIU Weimin(1223—1226)
- J-24 Nanometer Scale Devices and Circuit Simulation via Universal Device Model ZHANG Yubin, ZHU Xuan, DENG Mingtang, YI Xun and TANG Yuhua(1227—1230)
- J-25 The Application and Research on the Technique of Data Storage and Compression in the Monitor and Supervision System of Mine Gas YUAN Xiaoping(1231—1234)

- J-26 Color Difference Assessment on Partly Changed Complex Images ZHANG Zidong, LI Yongmei, YU Yuanhui, ZHANG Yuzhong(1235—1238)
- J-27 A Modified S-Function Variable-Step Size Adaptive Algorithm Based on State Space Model LIU Jianfeng, JIANG Zhuoqin, LI Juan, HUO Xiaoxin(1239—1245)
- J-28 An Efficient Multi-secret Sharing Scheme with General Access Structures WEI Yun, ZHANG Xingkai, XIONG Guohua(1246—1250)
- J-29 Web Page Recommendation Algorithm based on Weighted MFP Clustering XIONG Haijun, HUANG Zhiqiang(1251—1253)
- J-30 A Dynamic Paging Scheme for Minimizing Location Management Cost in Wimax Network YANG Fan, TANG Yuliang(1254—1258)
- J-31 Research of Inter-Layer Rate Allocation in SVC Based on RDO RUAN Ruolin, WU Aixia(1259—1262)
- J-32 Design of SPICE-Based Simulation System on Electronic Circuit Experiments YANG Yanming, ZHAO Jingcheng and LI Yuanlei(1263—1266)
- J-33 A Secure Anycast Model Based On PKI And PMI LI Taoshen, WANG Qian(1267—1271)
- J-34 The New Fiber-Optic Stain Sensor For Health Monitoring WANG Xueguang, CHI Jing, HAO Zhongxiao(1272—1274)
- J-35 A Study of the Actual Road segment Capacity Based on the BP Neural Network GAO Aixia, CHEN Yanyan(1275—1277)
- J-36 The Grey Target Decision-Making For Incomplete Information System Based on The Discrete Grey Number YANG Junjie and WU Shunxiang(1278—1284)
- J-37 The Exact Representation for the Intersection of Ruled Surface with a Plane Chiang Chingshoei(1285—1290)

Computer Education for Undergraduates

- K-01 The Role of Computer Education in Experimental Teaching for Library and Information Science SHEN Xiangxing, XIE Yuanyuan(1293—1297)
- K-02 The Exploration of Software Talent Cultivation Mode in Application-oriented Colleges WANG Weixing, GUO Jing(1298—1300)
- K-03 Research and Application of the Web-based Collaborative Teaching Model under the Credit System JIE Anquan, LI Yunqing, WANG Lan, LEI Gang, DENG Gelin(1301—1303)
- K-04 The Curriculum Practices and Reforms in Computer Science MIAO Fang and LIU Rui(1304—1306)
- K-05 The Exploration on Fostering Engineering Capability of Student in Normal Universities and Colleges YE Jihua, YING DeQuan, GAN Dengwen, LI Yunhong, LI Jianlian(1307—1310)
- K-06 Sturdy on a new Hierarchical Teaching Pattern of Principles of Microcomputer and Interfacing Technology ZHENG Ya-min(1311—1314)
- K-07 Xen Based Virtual Experimental Platform for Information Security CHEN Bo, XU Dawei, YU Ling(1315—1320)
- K-08 Teaching Data Structures and Algorithms in Project-Driven Context DENG Qingshan(1321—1323)
- K-09 Research and Practice of Visual Teaching for Data Structure Algorithms YIN Liping, HUANG Tongcheng(1324—1328)