



ICYCS 2008



Advance Program

for the 9th International Conference for Young
Computer Scientists (ICYCS 2008) and its
Symposiums/Workshops (TrustCom 2008, IWCSEI
2008, and IWCFTA-08)

- ◆ Sponsor: China Computer Federation (中国计算机学会)
- ◆ Organizer: School of Information Science and Engineering,
Central South University (中南大学信息科学与工程学院)
- ◆ In cooperation with:
National Natural Science Foundation of China
IEEE Computer Society

Advance Program
for the 9th International Conference for Young Computer
Scientists (ICYCS 2008) and its symposiums/workshops
(TrustCom 2008, IWCSEI 2008, and IWCFTA -08)

Zhang Jia Jie • China
November 18-21, 2008

Sponsor: China Computer Federation (中国计算机学会)
Organizer: School of Information Science and Engineering,
Central South University (中南大学信息科学与工程学院)
In cooperation with:
National Natural Science Foundation of China
IEEE Computer Society

Introduction to Central South University

Central South University (CSU) is located in the famous historical and cultural city - Changsha in Hunan province. It is a comprehensive and national key university with complete disciplines which is particularly good at engineering and medicine under the direct administration of the Ministry of Education in China. CSU is among the universities first acceded to the “ 211 Project ” and is also a high level university co-constructed by the ministry and the province in the national “ 985 Project ” . CSU was established in April 29th, 2000 on the basis of three former individual universities, namely Central South University of Technology, Hunan Medical University and Changsha Railway University.

The fields of study at CSU cover 10 major branches of learning, namely engineering, science, medicine, literature, law, economics, management, philosophy, education and history, radiating military and agriculture and forest. The university now has 29 second-level schools, 75 undergraduate programs, and has founded the graduate school which offers 242 master ’ s programs and 102 doctoral programs, 17 first class doctoral programs, and 22 post doctoral programs. It has 6 national key first class disciplines, 12 national second class disciplines, 4 national key laboratories and national engineering research centers, and 5 national-level talent training bases and engineering education bases. Among its faculty members, there are 3 academicians of Chinese Academy of Sciences, 12 academicians of Chinese Academy of Engineering, 574 doctoral supervisors, more than 898 full professors and more than 1985 associate professors. At present, the total number of full-time students in CSU from 31 provinces in China and more than 30 foreign countries and districts has reached more than 50,000.

CSU has excellent integrated education conditions, and offers complete infrastructures. It covers an area of 3,800,000 square meters and has a total floor space of 2,330,000 square meters. It also uses advanced teaching and research equipments with a total value of 620 million Yuan (RMB). The university has 3 top affiliated hospitals with advanced equipments which enjoy good reputation at home and abroad such as “ There is Xiangya in the south as well as Xiehe in the north ” .

Introduction to School of Information Science and Engineering, CSU

The School of Information Science and Engineering in Central South University (CSU) was established in May 2002 on the basis of the former School of Information Science and Engineering in Central South University of Technology (CSUT), Computer Center in CSUT, Computer Center in Hunan Medical University and the School of Information Engineering in Changsha Railway University. It has begun to enroll undergraduates since 1958 and to enroll postgraduates since 1978. The fields of study in the school covers 5 first class disciplines including control science and engineering, computer science and technology, information and communication engineering, electrical engineering, and electrical science and technology, and 2 second class disciplines including transportation information engineering and control and system analysis and integration. It now has 1 first class doctoral program, 8 second class doctoral programs, 5 first class postgraduate programs, 22 second class postgraduate programs, 5 programs of master of engineering and 7 graduate majors. The School of Information Science and Engineering has 2 national key disciplines, 3 provincial-level key disciplines, 3 provincial-level key majors, 2 first class post doctoral programs, 2 ministry and provincial-level engineering research centers, and 1 Hunan demonstration center. Now the total number of full time teachers, staffs and students in the School of Information Science and Engineering has reached almost 7000, which makes it the largest second-level school in Central South University.

In recent five years, the school has won 2 items of National Prize for Progress in Science and Technology, 46 provincial or ministry level prizes for Progress in Science and Technology. It has applied for and has been authorized 35 patents, has published 10 academic books, and obtained 1 National Teaching Achievement prize and 12 provincial and ministry level teaching achievement prizes. The school has developed 2 National Elite Courses, and published more than 40 textbooks. Meanwhile, it has taken on more than 70 national scientific research projects including key projects and major research plans in National Natural Science Foundation of China, national “ 973 ” projects, national “ 863 ” projects and major special programs of National Development and Reform Commission, major special programs of military industry and so on. The total amount of research expenditure allowance has added up to more than 120 million Yuan (RMB).

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I. ADVANCE PROGRAM AT A GLANCE OF ICYCS -08, TRUSTCOM-08, IWCSEI-08 & IWCFTA-08

Tuesday, November 18, 2008								
08:00 - 17:00	Registration (Lobby at Wulingyuan International Resort)							
12:30 - 14:00	Lunch (First-Floor Chinese Restaurant at Tianzi Hotel)							
14:00 - 14:30	TrustCom08 Opening Ceremony (Room R1) Chair: Guojun Wang Central South University, China			IWCSEI08 Opening Ceremony (Room R2) Chair: Tianzhou Chen, Zhejiang University, China			IWCFTA08 Opening Ceremony (Room R3) Chair: Zhiliang Zhu Northeastern University, China (including the following keynote sessions)	
14:30 - 15:30	TrustCom08 Keynote Speech I (Room R1) From Trusted Computing to Ubisafe Computing Jianhua Ma (Hosei University, Japan) Chair: Hamid Mehrvar, Nortel, Canada			IWCSEI08 Keynote Speech I (Room R2) Embrace Future through Innovation Nick Bao (Intel Corporation, China) Chair: Tianzhou Chen, Zhejiang University, China			IWCFTA08 Keynote Speech I (Room R3) Dynamical Geometry: From Order to Chaos and Sierpinsky Pedal Triangles Jiu Ding (The University of Southern Mississippi, USA)	
15:30 - 16:00	Coffee Break							
16:00 - 17:00	TrustCom08 Keynote Speech II (Room R1) Securing Pervasive Computing Applications Indrakshi Ray (Colorado State University, USA) Chair: Dongjun Huang Central South University, China			IWCSEI08 Session E1 (Room R2)		IWCSEI08 Session E2 (Room R5)		IWCFTA08 Keynote Speech II (Room R3) Discrete Chaos Theory and its Application to Anti-Control of Chaos Yuming Shi (Shandong University, China)
17:00 - 18:00	TrustCom08 Session T1A (Room R1)	TrustCom08 Session T2A (Room R8)	TrustCom08 Session T3A (Room R9)	TrustCom08 Session T4A (Room R10)				IWCFTA08 Keynote Speech III (Room R3) The Application of Nonlinear Theory in Computer Science Xingyuan Wang (Dalian University of Technology, China)
18:00 - 19:00								
18:00 - 20:00	Dinner (First-Floor Chinese Restaurant at Tianzi Hotel , Buffet)							

Wednesday, November 19, 2008								
08:00 - 17:00	Registration (Taihe Banquet Hall at Wulingyuan International Resort)							
08:30 - 09:00	ICYCS08 Opening Ceremony (Taihe Banquet Hall) Chair: Zhigang Chen, Central South University, China							
09:00 - 10:00	Keynote Speech I (Taihe Banquet Hall): Combinatorial Analysis of High-Throughput Transcriptomic Biological Data Michael A. Langston (University of Tennessee, USA) Chair: Yi Pan, Georgia State University, China							
10:00 - 11:00	Keynote Speech II (Taihe Banquet Hall): How to Prove W-hardness and Why You Might Want to Michael R. Fellows (The University of Newcastle, Australia) Chair: Yi Pan, Georgia State University, China							
11:00 - 11:30	Coffee Break							
11:30 - 12:30	Keynote Speech III (Taihe Banquet Hall): Protein Structure Prediction and its Understanding Based on Machine Learning Methods Yi Pan (Georgia State University, USA) Chair: Ming Xu, National University of Defense Technology, China							
12:30 - 14:00	Lunch (Taihe Shengshi Chinese Restaurant at Wulingyuan International Resort) (Side First-Floor at the Main Building)							
14:00 - 18:00	China Computer Federation YOCSEF Special Forum (Room R1) : What Can We Do in the Face of Country Demand in China? Executive Chairs: Guojun Wang, Central South University, China Xinjun Mao, National University of Defense Technology, China Zhigang Chen, Central South University, China Junmin Ye, Wuhan University, China							
14:00 - 16:00	ICYCS08 Session S3C1A (Room R2)	ICYCS08 Session S4C1A (Room R3)	ICYCS08 Session S1C1A (Room R5)	ICYCS08 Session S5C1 (Room R6)	ICYCS08 Session S7C1A (Room R7)	TrustCom08 Session T1B (Room R8)	IWCSEI08 Session E3 (Room R9)	IWCFTA08 Session F1 (Room R10)
16:00 - 16:30	Coffee Break							
16:30 - 18:30	ICYCS08 Session S3C1B (Room R2)	ICYCS08 Session S4C1B (Room R3)	ICYCS08 Session S1C1B (Room R5)	ICYCS08 Session S5C2A (Room R6)	ICYCS08 Session S7C1B (Room R7)	TrustCom08 Session T2B (Room R8)	IWCSEI08 Session E4 (Room R9)	IWCFTA08 Session F2 (Room R10)
18:30 - 20:30	Conference Banquet (Taihe Shengshi Chinese Restaurant at Wulingyuan International Resort) (Side First-Floor at the Main Building)							

Thursday, November 20, 2008								
08:00- 17:00	Registration							
09:00- 10:00	Keynote Speech IV (Taihe Banquet Hall): Transaction Calculus Ji-Feng He (East China Normal University, P. R. China) Chair: Weijia Jia, City University of Hong Kong, Hong Kong							
10:00- 11:00	Keynote Speech V (Taihe Banquet Hall): Seamless Wireless Mobile Communications for Pervasive Internet Access Jiannong Cao (Hong Kong Polytechnic University, Hong Kong) Chair: Weijia Jia, City University of Hong Kong, Hong Kong							
11:00- 11:30	Coffee Break							
11:30- 12:30	Keynote Speech VI (Taihe Banquet Hall): Mobile and Pervasive Computing: Localization and Modeling Yunhao Liu (Hong Kong University of Science and Technology, Hong Kong) Chair: Huadong Ma, Beijing University of Posts and Telecommunications, China							
12:30- 14:00	Lunch (Taihe Shengshi Chinese Restaurant at Wulingyuan International Resort) (Side First-Floor at the Main Building)							
14:00- 17:00	Panel Discussion (Room R1) : Killer Applications in Pervasive Computing Chair: Minyi Guo, Shanghai Jiao Tong University, China							
14:00- 16:00	ICYCS08 Session S3C2A (Room R2)	ICYCS08 Session S4C2A (Room R3)	ICYCS08 Session S1C2 (Room R5)	ICYCS08 Session S5C2B (Room R6)	ICYCS08 Session S7C2A (Room R7)	TrustCom08 Session T3B (Room R8)	IWCSEI08 Session E5 (Room R9)	IWCFTA08 Session F3 (Room R10)
16:00- 16:30	Coffee Break							
16:30- 18:30	ICYCS08 Session S3C2B (Room R2)	ICYCS08 Session S4C2B (Room R3)	ICYCS08 Session S2C1 (Room R5)	ICYCS08 Session S5C3A (Room R6)	ICYCS08 Session S7C2B (Room R7)	TrustCom08 Session T4B (Room R8)	IWCSEI08 Session E6 (Room R9)	IWCFTA08 Session F4 (Room R10)
18:00- 20:00	Dinner (Taihe Shengshi Chinese Restaurant at Wulingyuan International Resort) (Side First-Floor at the Main Building)							

Friday, November 21, 2008								
8:00- 10:00	ICYCS08 Session S3C3A (Room R2)	ICYCS08 Session S4C3 (Room R3)	ICYCS08 Session S2C2 (Room R5)	ICYCS08 Session S5C3B (Room R6)	ICYCS08 Session S7C3 (Room R7)	TrustCom08 Session T5A (Room R8)	IWCSEI08 Session E7 (Room R9)	IWCFTA08 Session F5 (Room R10)
10:00- 10:30	Coffee Break							
10:30- 12:30	ICYCS08 Session S3C3B (Room R2)	ICYCS08 Session S4C4A (Room R3)	ICYCS08 Session S8C1 (Room R5)	ICYCS08 Session S6C1 (Room R6)	ICYCS08 Session S8C2 (Room R7)	TrustCom08 Session T6A (Room R8)	IWCSEI08 Session E8 (Room R9)	IWCFTA08 Session F6 (Room R10)
12:30- 14:00	Lunch (Taihe Shengshi Chinese Restaurant at Wulingyuan International Resort) (Side First-Floor at the Main Building)							
14:00- 16:00	ICYCS08 Session S3C3C (Room R2)	ICYCS08 Session S4C4B (Room R3)	ICYCS08 Session S8C3A (Room R5)	ICYCS08 Session S6C2A (Room R6)	ICYCS08 Session S8C4A (Room R7)	TrustCom08 Session T5B (Room R8)	IWCFTA08 Session F7 (Room R9)	IWCFTA08 Session F8 (Room R10)
16:00- 16:30	Coffee Break							
16:30- 18:30	ICYCS08 Session S3C3D (Room R2)	ICYCS08 Session S4C5 (Room R3)	ICYCS08 Session S8C3B (Room R5)	ICYCS08 Session S6C2B (Room R6)	ICYCS08 Session S8C4B (Room R7)	TrustCom08 Session T6B (Room R8)	ICYCS08 Session S3C4 (Room R9)	IWCFTA08 Session F9 (Room R10)
18:00- 20:00	Closing Remark/Dinner (Taihe Shengshi Chinese Restaurant at Wulingyuan International Resort) (Side First-Floor at the Main Building)							

Saturday & Sunday, November 22- 23, 2008								
Post- Conference Tours at Zhang Jia Jie								

II. Conference Components and Organizations

(I) Components

1. The 9th International Conference for Young Computer Scientists (ICYCS 2008)
2. The 2008 International Symposium on Trusted Computing (TrustCom 2008)
3. The First International Workshop on Computer System Education and Innovation (IWCSEI 2008)
4. The 2008 International Workshop on Chaos-Fractals Theories and Applications (IWCFTA 2008)
5. China Computer Federation YOCSEF Forum (What Can We Do in the Face of Country Demand in China?)
6. Panel Discussion (Killer Applications in Pervasive Computing)

(II) ICYCS-08 Organizations

1. General Chairs

Weihua Gui, Central South University, China

Jonathan Gross, Columbia University, USA

Dan Meng, Institute of Computing Technology, Chinese Academy of Sciences, China

2. Advisory Committee Chair

Zide Du, China Computer Federation, China

Advisory Committee (in alphabetical order)

Guojie Li, Chinese Academy of Sciences, China

Hans P. Zima, California Institute of Technology, USA

Huimin Lin, Chinese Academy of Sciences, China

Jianguang Sun, Tsinghua University, China

Jian Li, Central South University, China

Masato Takeichi, University of Tokyo, Japan

Rudolf Eigenmann, Purdue University, USA

Sajal K. Das, University of Texas at Arlington, USA

Songqiao Chen, Central South University, China

Wanlei Zhou, Deakin University, Australia

Wei Li, Beihang University, China

Xicheng Lu, National University of Defense Technology, China

3. Program Chairs

Jianer Chen, Central South University, China

Michael R. Fellows, University of Newcastle, Australia

Huadong Ma, Beijing University of Posts and Telecommunications, China

Program Committee (in alphabetical order)

Baowen Xu, Southeast University, China

Beihong Jin, Institute of Software, Chinese Academy of Sciences, China

Beiji Zou, Central South University, China

Bofeng Zhang, Shanghai University, China

Chang-Ai Sun, Beijing Jiaotong University, China

Changyun Li, Hunan University of Technology, China

Chee Yap, New York University, USA

Chengzheng Sun, Nanyang Technological University, Singapore

Chengzhong Xu, Wayne State University, USA

Ching-Hsien (Robert) Hsu, Chung Hua University, Taiwan

Cho-Li Wang, University of Hong Kong, Hong Kong

Chunguang Zhou, Jilin University, China

Dafang Zhang, Hunan University, China

Dajin Wang, Montclair State University, USA

Daming Wei, University of Aizu, Japan

Dan Feng, Huazhong Univ. of Science and Technology, China

David Taniar, Monash University, Australia

Dengguo Feng, Institute of Software, Chinese Academy of Sciences, China

Dong Xiang, Tsinghua University, China

Dong Xuan, Ohio State University, USA

Dongyang Long, Sun Yat-Sen University, China

Feng Bao, Institute for Infocomm Research, Singapore

Ge Yu, Northeastern University, China

Hai Jin, Huazhong Univ. of Science and Technology, China

Haiyan Zhao, Peking University, China

Hongli Zhang, Harbin Institute of Technology, China

Huaimin Wang, National University of Defense Technology, China

Hsiao-Hwa Chen, National Sun Yat-Sen University, Taiwan

Jack Dongarra, University of Tennessee, USA

Ji Wang, National Laboratory for Parallel and Distributed Processing, China

Jian Lv, Nanjing University, China

Jianhua Ma, Hosei University, Japan

Jiannong Cao, Hong Kong Polytechnic University, Hong Kong

Jianxin Wang, Central South University, China

Jianxun Liu, Hunan University of Science and Technology, China

Jicheng Ren, Beijing Zhongke Fulong Computer Technology Co., Ltd, China

Jie Li, University of Tsukuba, Japan

Jie Wu, National Science Foundation, USA

Jinpeng Huai, Beihang University, China

Ke Liu, National Natural Science Foundation of China, China

Xiaowu Chen, Beihang University, China

Junzhou Luo, Southeast University, China

Keqiu Li, Dalian University of Technology, China

Ming Fu, Changsha University of Science and Technology, China

Ming Xu, National University of Defense Technology, China

Minglu Li, Shanghai Jiao Tong University, China

Peter Mueller, IBM Zurich Research Laboratory, Switzerland
Qianxiang Wang, Peking University, China
Qiang Wu, University of Technology, Sydney, Australia
Qiangfu Zhao, University of Aizu, Japan
Qing Wang, Northwestern Polytechnical University, China
Renren Liu, Xiangtan University, China
Renyi Xiao, National Natural Science Foundation of China, China
Shimin Hu, Tsinghua University, China
Sy-Yen Kuo, National Taiwan University, Taiwan
Viktor K. Prasanna, University of Southern California, USA
Wei Zhao, Rensselaer Polytechnic Institute, USA
Weijia Jia, City University of Hong Kong, Hong Kong
Ting Liu, Harbin Institute of Technology, China
Weiqin Tong, Shanghai University, China
Weiqing Tang, Institute of Computing Technology, Chinese Academy of Sciences, China
Xiaofeng Meng, Renmin University of China, China
Xiaohong Jiang, Tohoku University, Japan
Yan Zhang, Simula Research Laboratory, Norway
Yang Xiao, University of Alabama, USA
Yi Pan, Georgia State University, USA
Yu Hua, Huazhong Univ. of Science and Technology, China
Yue Lu, East China Normal University, China
Yuehui Chen, Jinan University, China
Yunde Jia, Beijing University of Technology, China
Zhi Jin, Academy of Mathematics and

Systems Science, Chinese Academy of Sciences, China
Zhigang Hu, Central South University, China
Zhiguang Shan, State Information Center, China
Zhiguang Qin, University of Electronic Science and Technology of China, China
Zhi-Hua Zhou, Nanjing University, China
Zhiwen Yu, Kyoto University, Japan
Zhiying Wang, National University of Defense Technology, China
Zhong Ming, Shenzhen University, China

4. Organizing Chair

Zhigang Chen, Central South University, China
Organizing Committee (in alphabetical order)
Zhaohui Dai, Central South University, China
Xiaoheng Deng, Central South University, China
Dongjun Huang, Central South University, China
Hong Li, Central South University, China
Ming Liu, Central South University, China
Ronghua Shi, Central South University, China
Zhe Tang, Central South University, China
Weiping Wang, Central South University, China
Zuping Zhang, Central South University, China
Jin Zheng, Central South University, China

5. Symposium/Workshop Chair

Laurence T. Yang, St. Francis Xavier University, Canada

6. Panel Chair

Minyi Guo, Shanghai Jiao Tong University, China

7. Publication Chair

Guojun Wang, Central South University, China

8. Publicity Chairs

Xiaolin (Andy) Li, Oklahoma State University, USA

Geyong Min, University of Bradford, UK

Young-Sik Jeong, WonKwang University, Korea

Wenbin Jiang, Huazhong University of Science and Technology, China

9. Award Chairs

Guojun Wang, Central South University, China

Tianzhou Chen, Zhejiang University, China

Hai Yu, Northeastern University, China

10. International Liaison Chairs

Hamid Mehrvar, Nortel, Canada

Song Guo, The University of Aizu, Japan

Keqiu Li, Dalian University of Technology, China

11. Conference Secretariats

Ming Liu, Central South University, China

Zhengyu Zhu, China Computer Federation, China

12. Webmaster

Xiaofei Xing, Central South University, China

(III) TrustCom -08 Organizations

1. General Chairs

Weijia Jia, City University of Hong Kong, Hong Kong

Kouichi Sakurai, Kyushu University, Japan

Hsiao-Hwa Chen, National Cheng Kung University, Taiwan

2. Program Chairs

Guojun Wang, Central South University, China

Chang-Ai Sun, Beijing Jiaotong University, China

Bin Xiao, Hong Kong Polytechnic University, Hong Kong

Program Committee (in alphabetical order)

Adel Cherif, Qatar University, Qatar

Carlos Baladron, University of Valladolid, Spain

Dafang Zhang, Hunan University, China

Dengguo Feng, Institute of Software, Chinese Academy of Sciences, China

Deqing Zou, Huazhong University of Science & Technology, China

Dong Xiang, Tsinghua University, China

Dongyang Long, Sun Yat-Sen University, China

Emmanuelle Anceaume, IRISA, France

Fang Qi, Central South University, China

Feng Bao, Institute for Infocomm Research, Singapore

Gang Li, Institute of Computing Technology, Chinese Academy of Sciences, China

Geyong Min, University of Bradford, UK

Gianluca Ramunno, Politecnico di Torino, Italy

Helen Yiqun Tang, Defence Research & Development Canada-Ottawa, Canada

Gregorio Martinez, University of Murcia (UMU), Spain
Jean - Marc Seigneur, University of Geneva, Switzerland
Ji Wu, Beihang University, China
Jian Yu, Politecnico di Torino, Italy
Jianhua Ma, Hosei University, Japan
Jie Li, University of Tsukuba, Japan
Jie Wu, National Science Foundation, USA
Jinhua Xiong, Institute of Computing Technology, Chinese Academy of Sciences, China
Jinzhao Wu, Beijing Jiaotong University, China
Jun Shen, University of Wollongong, Australia
Kai-Yuan Cai, Beihang University, China
Kenji Saito, Keio University, Japan
Keqiu Li, Dalian University of Technology, China
Liudong Xing, University of Massachusetts Dartmouth, USA
Marco Aiello, University of Groningen, the Netherlands
Maria S. Perez-Hernandez, Universidad Politecnica de Madrid, Madrid, Spain
Marten J. Van Sinderen, University of Twente, the Netherlands
Masumi Toyoshima, Kitakyushu University, Japan
Mieso Denko, University of Guelph, Canada
Paolo Falcarin, Politecnico di Torino, Italy
Sanglu Lu, Nanjing University, China
Sy-Yen Kuo, National Taiwan University, Taiwan
Tai Xin, Microsoft Corporation, USA
Weiping Wang, Central South University, China
Wenbin Jiang, Huazhong Univ. of Science and Technology, China
Wing-Kwong Chan, City University of

Hong Kong, Hong Kong
Xiaolin (Andy) Li, Oklahoma State University, USA
Xiaoying Bai, Tsinghua University, China
Yanbo Han, Institute of Computing Technology, Chinese Academy of Sciences, China
Yi Mu, University of Wollongong, Australia
Young-Sik Jeong, WonKwang University, Korea
Yuzhong Sun, Institute of Computing Technology, Chinese Academy of Sciences, China
Zhiguang Qin, University of Electronic Science and Technology of China, China
Zhi Quan Zhou, University of Wollongong, Australia
Zili Shao, Hong Kong Polytechnic University, Hong Kong

3. Steering Chairs

Laurence T. Yang, St. Francis Xavier University, Canada
Minyi Guo, Shanghai Jiao Tong University, China
Jiannong Cao, Hong Kong Polytechnic University, Hong Kong

4. Publicity Chairs

Yan Zhang, Simula Research Laboratory, Norway
Baoliu Ye, Nanjing University, China
Peter Mueller, IBM Zurich Research Laboratory, Switzerland

5. Secretariat

Yueming Deng, Central South University, China

6. Webmaster

Xiaofei Xing, Central South University,

China

Dequan Gu, Shantou University, China

(IV) IWCSEI-08 Organizations

Program Chairs

Tianzhou Chen, Zhejiang University, China

Program Committee (in alphabetical order)

Aihua Wu, Ministry of Education of P. R. China, China

Yan Luo, University of Massachusetts Lowell, USA

Karam S. Chatha, Arizona State University, USA

Jiaqiang Yang, The Hong Kong University of Science & Technology, Hong Kong

Yajun Ha, National University of Singapore, Singapore

Guozhi Xu, Shanghai Jiao Tong University, China

Jianfeng Yang, Wuhan University, China

Hui Yan, Zhejiang University, China

Weihua Hu, Hangzhou Dianzi University, China

Tongsen Hu, Zhejiang University of Technology, China

Zhanglong Chen, Fudan University, China

Wei Xue, Tsinghua University, China

Jiong Zhang, Beihang University, China

Hongjun Dai, Shandong University, China

Yue Gao, Institute of Software, Chinese Academy of Science, China

Lei Luo, University of Electronic Science and Technology of China, China

Nick Bao, Intel Corporation (China), China

Zhigang Chen, Central South University, China

Zhiguang Shan, State Information Center, China

(V) IWCFTA-08 Organizations

1. Program Chairs

Guanrong (Ron) Chen, City University of Hong Kong, China

Zhiliang Zhu, Northeastern University, China

2. Program Vice-Chairs

Dingwei Wang, Northeastern University, China

C.K. Michael Tse, The Hong Kong Polytechnic University, China

Xiaofan Wang, Shanghai Jiao Tong University, China

Xinghuo Yu, RMIT University, Australia

3. Program Committee (in alphabetical order)

Qun Ding, Heilongjiang University, China

Yan Wang, Shenyang Ligong University, China

Cong Wang, South China University of Technology, China

Xingyuan Wang, Dalian University of Technology, China

Yuming Shi, Shandong University, China

Zhong Liu, Nanjing University of Science and Technology, China

Xiangdong Liu, Dalian Nationalities University, China

Francis C.M. Lau, The Hong Kong Polytechnic University, China

Jinhu Lu, AMSS, Chinese Academy of Science, China

Chen He, Shanghai Jiao Tong University, China

Xiaosong Yang, Huazhong University of

Science and Technology, China
Zengqing Chen, Nankai University, China
Zhisheng Duan, Peking University, China
Simin Yu, Guangdong University of
Technology, China
Deping Zhao, Shenyang Jianzhu University,
China
KwokWo Wong, City University of Hong
Kong, Hong Kong
Guoping Jiang, Nanjing University of Posts
and Telecommunications, China
Jiu Ding, University of Southern Mississippi,
USA
Yue Ma, Kyoto University, Japan
Derong Liu, University of Illinois at Chicago,
USA
Zhong Li, Fern University at Hagen, Germany

4. Organizing Committee

Hai Yu, Northeastern University, China
Chong Fu, Northeastern University, China
Dancheng Li, Northeastern University,
China
Guangming Yang, Northeastern University,
China
Huaiyu Xu, Northeastern University,
China
Xiaoxing Gao, Northeastern University,
China

(VI) Supporters

National Natural Science Foundation of
China
IEEE Computer Society
Hunan University of Science and Technology

III. Keynote Speeches

(I) TrustCom -08 Keynote Speeches

1. Keynote Speech I (Room R1) 14:30 - 15:30, November 18, 2008 (Tuesday)

Prof. Jianhua Ma, Ph.D.

Faculty of Computer and Information Sciences, Hosei University, Tokyo, Japan

<http://cis.k.hosei.ac.jp/~jianhua/>

Title: From Trusted Computing to Ubisafe Computing

Abstract: Trusted/trustworthy Computing (TC) recently is attracting great attention and is intending to build a unified framework or general computing paradigm to cover various aspects including security, reliability, risk, reputation, and so on. Trust is indeed very important and greatly expected especially in cooperation among hardware, software, services, etc. In our life experience, trust is only one of the key elements in cooperative processes. The cooperation is just one relationship between entities in the real world. Actually there are many other relationships, such as loosely coupled, mutual use, non-cooperation, competition, fight, and so on. No matter what relationships exist, what users often desire is that they can receive satisfactory services and get things done safely.

Although computer and network safety has been studied for several decades, we still have several basic questions to answer: (1) Do we really understand all kinds of new risks, possibly ubiquitous dangers, in using novel computers/networks that are attached, embedded or blended into real objects and environments? (2) Do we really have efficient and effective solutions to precisely predict and further prevent the risks/dangers under various situations in the complex computing environment? (3) Can we create risk-less or danger-proof computing environments in which all people can really enjoy ubiquitous services without any anxiety about safety problems covering dependability, security, privacy, persistency, distrust, disaster, uncertainty, unpredictability, out of control, and so on? Ubisafe Computing is to address challenges related to the above questions, and provide a unified solution for all people to get benefit from trustworthy ubiquitous services and simultaneously guarantee their desired safety.

Short Bio: Jianhua Ma is the Professor at the Faculty of Computer and Information Sciences of Hosei University since 2000. Previously, he had 15 years' teaching/research experience at NUDT, Xidian University and the University of Aizu (Japan). His research from 1983 to 2003 covered coding techniques for wireless communications, data/video transmission security, speech recognition and synthesis, multimedia QoS, 1-to-m HC

hyper-interface, graphics ASIC, e-learning and virtual university, CSCW, multi-agents, Internet audio and video, mobile web service, P2P network, etc. Since 2003 he has been devoted to what he called Smart Worlds (SW) pervaded with smart/intelligent u-things including three kinds of essential elements: smart object, smart space/hyperspace and smart system, which are based on the visions of the Ubiquitous Intelligence (UI) or Pervasive Intelligence (PI), Ubisafe Computing, and u-Science & u-Engineering.

Dr. Ma is the Co-Editor-in-Chief of three international journals: Journal of Ubiquitous Computing and Intelligence (JUCI), Journal of Mobile Multimedia (JMM) and Journal of Autonomic and Trusted Computing (JoATC), and the Assistant Editor-in-Chief of International Journal of Pervasive Computing and Communications (JPCC). He is on the editorial board of IJCPOL, IJDET, IJWMC, IJSH and IJSIA, and has edited more than 10 journal special issues as a Guest Editor. He organized the 6th Int ' I Conference on Distributed Multimedia Systems (DMS ' 99) as PC Co-Chair, the 1st Int ' I Conference on Cyber Worlds (CW ' 02) as one of founders and PC Co-Chairs, and the 2004 IEEE Int ' I Conference on Advanced Information Networks and Applications (AINA ' 04) as a General Co-Chair. He is the founder of Int ' I Conf. on Ubiquitous Intelligence and Computing (UIC) and Int ' I Conf. on Autonomic and Trusted Computing (ATC), which started from 2005. He has served many other conferences/workshops as various chairs and committee members. He is the Chair of IEEE Task Force on Autonomic and Trusted Computing, and received the Appreciation Certificate from IEEE Computer Society in 2004-2007.

2. Keynote Speech II (Room R1) 16:00-17:00, November 18, 2008 (Tuesday)

Associate Professor Indrakshi Ray, Ph.D.

Department of Computer Science, Colorado State University, USA

<http://www.cs.colostate.edu/~iray>

Title: Securing Pervasive Computing Applications

Abstract: Pervasive computing applications have the potential to benefit society. These applications typically use knowledge of the environment to provide better services and functionalities. Such knowledge of the environment can be exploited to cause security and privacy breaches. Pervasive computing applications also involve a large number of entities spanning multiple organizations. Thus, security and privacy breaches can have very far reaching consequences. Therefore, before such technology can be widely deployed, privacy and security issues must be addressed.

Although a lot of research appears in the area of security, we will explore why existing security models, mechanisms, and approaches cannot be used for securing pervasive computing applications. We will discuss what types of security policy models are useful

for pervasive computing applications, how security provisioning can be done for such applications, and how to design secure pervasive applications and have assurance that the security properties are indeed satisfied.

Short Bio: Indrakshi Ray is an Associate Professor in the Computer Science Department at Colorado State University. Her research spans the areas of Computer Security, Formal Methods in Software Engineering, and Database Systems. She has published papers in the area of access control policies, trust models, designing secure systems, workflows and semantics-based transaction processing. Her research has been supported by the Air Force Office of Scientific Research, Air Force Research Laboratory, Federal Aviation Administration, and the National Science Foundation.

Indrakshi Ray has been actively involved in various capacities with numerous conferences and journals. She was the Program Co-Chair IEEE/IFIP TSP 2008, General Chair of ACM SACMAT 2008, Program Chair of ACM SACMAT 2006, Program Co-Chair TACS 2006, and Program Co-Chair of WG 11.3 IFIP DBSec 2003. She has also served on program committees of many conferences including CCS, DBSec, EDBT, ESORICS, ICDE and SACMAT. She was the Guest Editor of ACM TISSEC and Journal of Autonomic and Trusted Computing. She is an editorial board member of Computer Standards and Interfaces, and Journal of Autonomic and Trusted Computing. She is a member of the ACM and IEEE.

(II) IWCSEI -08 Keynote Speeches

Keynote Speech I (Room R2) 14:30 - 15:30, November 18, 2008 (Tuesday)

Mr. Nick Bao

Intel Corporation, China

Email: nick.bao@intel.com

Title: Embrace Future through Innovation

Abstract: The presentation will introduce Intel ' s latest processor technologies and Intel ' s vision of the future technologies on processors, virtualization, visual computing, etc. It will also introduce Intel ' s China University Program through which Intel cooperates with China Universities on these new technologies.

Short Bio: Nick Bao is a China Higher Education Manager. He has a bachelor ' s degree from Xi ' an Jiaotong University in Information Science & Engineering, and a master ' s degree from Shanghai Jiaotong University in Electronic Engineering. Nick Bao started working for Intel in Jan of 2000 as a software engineer on multimedia Intel Performance Primitive Library (IPP) development, then development manager of Board Support

Package for Intel Embedded Processors on embedded OSes, such as Linux, Palm and WinCE. Nick Bao also worked as technical marketing manager to promote Open Source Solutions in China. Nick Bao is passionate in the cooperation between Intel and the academia. He gave Intel Process architecture lecture in Universities and published paper on multi-core education. He also serves as the member of the MoE CDIO engineering education model research and practice project. He also served as the judge member of the “ Intel Cup ” National Undergraduate Embedded System Contest appraisal.

(III) IWCFTA-08 Keynote Speeches

Keynote Speech I (Room R3) 14:30- 15:30, November 18, 2008 (Tuesday)

Prof. Jiu Ding, Ph.D.

Department of Mathematics, The University of Southern Mississippi, USA

Email: jjudin@gmail.com

Title: Dynamical Geometry: From Order to Chaos and Sierpinsky Pedal Triangles

Abstract: We give an introduction to the subject of discrete dynamical geometry, which studies iterated dynamical systems of geometric figures, and we present some joint research with Dr. Xin-Min Zhang of the University of South Alabama and other co-authors.

A regular behavior is observed for some kinds of iterated triangles and cyclic polygons, which can be proved via the Perron-Frobenius theorem for nonnegative matrices. But a chaotic behavior appears when sequences of pedal triangles of initial triangles are generated. Using pedal triangles, we construct new fractals called Sierpinski pedal triangles since they are reduced to the famous Sierpinski triangle when the initial triangle is equilateral. The fractional dimensions of Sierpinski pedal triangles are also calculated and it is proved that the well-known dimension $(\ln 3) / (\ln 2)$ of the classic Sierpinski triangle is a global minimum of the dimension function defined for all the Sierpinski pedal triangles.

This talk serves as sightseeing on the way from order to chaos in the garden of dynamical geometry, and it also provides a way of looking at the classic Euclidean geometry from a modern mathematics point of view.

Short Bio: Jiu Ding received his Ph.D. degree in applied mathematics from Michigan State University, USA in 1990 under Professor Tien-Yien Li, after receiving his B.S. and M.S. degrees in computational mathematics from Nanjing University, China in 1982 and 1984, respectively. Upon graduation, he joined the Department of Mathematics at the University

of Southern Mississippi, and was promoted to the rank of Full Professor in 1999.

He has published about 80 research papers on about 30 international refereed journals in the areas of computational ergodic theory of chaos, interior point methods, linear algebra, operator theory, wireless communications, and mathematical education. His Chinese textbook "Statistical Properties of Deterministic Systems" with Aihui Zhou was published by Tsinghua University Press in 1/2006 and reprinted in 12/2006, and its expanded English edition will be published by the Springer-Verlag. His new English book "Nonnegative Matrices, Positive Operators, and Applications" with Aihui Zhou will be published by the World Scientific.

He has received a University Research Award, a University Teaching Award, a University Grand Marshal Award, and a University Innovation Award, and a Second Prize from the Chinese Composition Competition at the First Reading Festival of Jiangsu Province, China.

Keynote Speech II (Room R3) 15:30-16:30, November 18, 2008 (Tuesday)

Prof. Yuming Shi, Ph.D.

Department of Mathematics, Shandong University, China

Email: ymshi@sdu.edu.cn

Title: Discrete Chaos Theory and its Application to Anti-Control of Chaos

Abstract: Chaotic systems are a class of important nonlinear systems with complex dynamics. Although the chaotic phenomenon was noticed by the famous French mathematician Henri Poincaré near the end of the eighteenth century, not much attention had been paid by scientists and mathematicians until E. N. Lorenz found the famous Lorenz attractor in 1963. In general, it is quite difficult to determine whether a given system is chaotic or not, in a rigorous mathematical sense, especially for the higher-dimensional case. Nevertheless, there has been some significant progress in the study of chaotic maps, i.e., discrete chaotic systems, in the recent years.

Based on the recent research, moreover, it has been found that chaos can actually be very useful under some circumstances. Therefore, sometimes it is desirable and even important to make a system chaotic or create new types of chaos by means of control, which is called anti-control of chaos. Due to the great potentials of chaos in many non-traditional applications, there is growing interest in research on anti-control of chaos today.

This talk will firstly introduce some background of chaos. Next, some old and new mathematical criteria of discrete chaos will be surveyed, which include the chaos implied by transverse homoclinic orbits and heteroclinic orbits for diffeomorphisms and general

maps, the snap-back repeller theory, and the coupled-expanding theory in both finite-dimensional and infinite-dimensional spaces. Finally, some of their applications to anti-control of chaos will be presented with computer simulations.

It is noted that most of the results presented in this talk are obtained very recently, therefore should be informative to the audiences with interests in discrete chaos theory and its applications.

Short Bio: Dr. Shi received the MS degree in mathematics from Nankai University and the PhD degree in mathematics from Shandong University, China. She is now a full professor in the Department of Mathematics at Shandong University. Her research interest is in the fields of the chaos theory and its applications, spectral theory of differential and difference operators, and complex dynamical networks. She has about 40 journal papers published and accepted. She was invited speakers in several international conferences, as Research Fellow in City University of Hong Kong and Hong Kong Polytechnic University for several times, and as Visiting Professor in the University of Western Ontario, Canada for about one year.

Keynote Speech III (Room R3) 17:00- 18:00, November 18, 2008 (Tuesday)

Prof. Xingyuan Wang, Ph.D.

School of Electronic & Information Engineering, Dalian University of Technology, China

Email: wangxy@dlut.edu.cn

Title: The Application of Nonlinear Theory in Computer Science

Abstract: This talk is focused on the formation and development of the theory of chaos and fractal, and the effect for the computer science. Under normal physiological conditions, the EEG signals are chaotic, while under injury conditions the signals approach regularity. Chaotic patterns of the dynamics model may emerge out of Pomeau -Manneville route, and relevant to double-periodic bifurcation, Hopf bifurcation, and reverse bifurcation. Based on the technique of coloring, lighting, shadow and mist in computer graphics, it is constructed to a series of 3 dimension Iterated Function System (3-D IFS) attractors characterized with the feature of natural scene on computer. By using chaotic cryptosystem, all kinds of files (such as Txt, Bmp, Wav and so on) are encrypted and decrypted. It also indicates that the security of chaotic encryption arithmetic based on searching is intensified. But the encryption speed is not distinctly improved because the searching process wastes time very much.

Short Bio: In 1987, graduated from the physics major of Tianjin University and awarded the bachelor's degree of science. In 1992, graduated from the optics major of Tianjin University and awarded the master's degree of science. In 1999, graduated from the

computer software and theory major of Northeastern University and awarded the doctor ' s degree of engineering science. From 1999 to 2001, work in the postdoctoral research center of automatization in Northeastern University. Now, work in Dalian University of Technology, take the department head of the school of Electronic & Information Engineering, the director of the computer application institute, professor, and the doctoral supervisor. Engage in the research on the theory of chaos and fractal for long term. Preside the national natural science fund project, the doctoral program foundation of institution of higher education of China and other more than 10 research subjects. In recent 8 years, publish 2 academic books and more than 150 papers (which have more than 80 pieces in periodicals indexed by SCI, more than 100 pieces in periodical indexed by EI). In 2006, reward " The Liaoning province science and technology third class prize " . Guide more than 70 the doctoral students and the postgraduates in all. At present, one student had been awarded the doctor degree, 42 students had been awarded the master degree, where 2 students had been awarded " The Liaoning province excellence master degree paper " . Lecture 5 courses for undergraduate and postgraduate, where 2 courses are the core courses of undergraduate.

(IV) ICYCS -08 Keynote Speeches

Keynote Speech I (Taihe Banquet Hall) 9:00 -10:00, November 19, 2008 (Wednesday)

Prof. Michael A. Langston, Ph.D.

Department of Computer Science at the University of Tennessee, USA

<http://www.cs.utk.edu/~langston/>

Title: Combinatorial Analysis of High-Throughput Transcriptomic Biological Data

Abstract: This talk is focused on implementation issues for novel algorithmic methods based on the theory of fixed-parameter tractability. When combined with high performance computational platforms, these methods can be used to launch systematic attacks on key combinatorial problems of widespread significance. Efficient sequential techniques for problem reduction and highly parallel algorithms for exhaustive search will be discussed, as will the trade-offs between real and synthetic data. The importance of maintaining a balanced decomposition of the search space is often critical to achieving scalability. The analysis of microarray data serves as a prime example. Using mRNA samples obtained from recombinant inbred strains of mice, we can now solve immense instances of clique and related problems to derive putatively co-regulated genesets and other biological items of interest. The depth of genetic analysis we can perform is vastly enhanced by combining these results with the knowledge of cis-regulatory elements, microRNA binding sites, ontological classifications, literature review, and causal structures

imposed with quantitative trait locus mapping. Techniques for dealing with noisy data are important concerns. Long-term goals include the elucidation of genetic variation effects and the discovery of biological network structures.

Short Bio: Michael A. Langston received the Ph.D. in Computer Science from Texas A&M University in 1981. He is currently a Professor of Computer Science at the University of Tennessee and a Collaborating Scientist at the Oak Ridge National Laboratory. He is perhaps best known for his long-standing work on applications of fixed-parameter tractability, combinatorial algorithms, computational biology, and design paradigms for sequential and parallel computation. In addition to maintaining his research program, he regularly teaches courses on algorithmic analysis, bioinformatics, combinatorics, complexity theory, graph theory and related subjects.

Dr. Langston has authored over 200 refereed journal articles, conference papers, book chapters and other reports. His work has been funded in the United States by the National Science Foundation, the National Institutes of Health, the Department of Defense, the Department of Energy and a variety of other state and federal agencies. His work has been supported overseas by the Australian Research Council and the European Commission. He has served on an assortment of editorial boards, including the Association for Computing Machinery's flagship publication, Communications of the ACM. He has received honors for teaching, research and service. Notable among these are the Distinguished Teaching Award, Texas A&M University, 1981, the Chancellor's Award for Research and Creative Achievement, University of Tennessee, 1994, and the Distinguished Service Prize, ACM Special Interest Group on Algorithms and Computation Theory, 2001.

Keynote Speech II (Taihe Banquet Hall) 10:00 - 11:00, November 19, 2008 (Wednesday)

Prof. Michael R. Fellows, Ph.D.

Department of Computer Science at the University of Newcastle, Australia

<http://www.cs.newcastle.edu.au/~mfellows/>

Title: How to prove W -hardness and why you might want to.

Abstract: In the early 1970's, Richard Karp famously gave a series of talks worldwide that popularized the notion of NP-hardness, based on a collection of examples showing people how to prove such results, and explaining the significance of such outcomes. This talk will be modeled on the precedent. It will instruct on how to prove parameterized hardness through concrete examples, describing key starting points for $W[1]$ -hardness reductions, key combinatorial strategies for parameterized gadgeteering, tips on how to find reasonable parameters to consider, and discussion of the significance of such results.

Short Bio: Michael Fellows is recognized as a principal founder of research in parameterized algorithms and complexity; for this he received an Alexander von Humboldt Research Award in 2007. He co-authored (with Rod Downey) the foundational papers in the field, and the research monograph *Parameterized Complexity* (Springer, 1999). He has also co-authored two well-known books popularizing mathematical computer science to young audiences, *This is MEGA - Mathematics!* and *Computer Science Unplugged* (which has been translated into ten languages, including Chinese and Korean). He serves as an Associate Editor for the *Journal of Computer and System Sciences*. He received his Ph.D. in Computer Science from the University of California, San Diego (his hometown), in 1985. He likes to surf real big waves, and tells entertaining stories of a varied life of experiences including military special forces, prison for conscientious objection, commercial fishing in Alaska in the winter, and efforts to reform mathematical sciences education and culture.

Keynote Speech III (Taihe Banquet Hall) 11:30 - 12:30, November 19, 2008 (Wednesday)

Prof. Yi Pan, Ph.D.

Department of Computer Science, Georgia State University, USA

<http://www.cs.gsu.edu/pan/>

Title: Protein Structure Prediction and its Understanding Based on Machine Learning Methods*

Abstract: Understanding protein structures is vital to determining the function of a protein and its interaction with DNA, RNA and enzyme. The information about its conformation can provide essential information for drug design and protein engineering. While there are over a million known protein sequences, only a limited number of protein structures are experimentally determined. Hence, prediction of protein structures from protein sequences using computer programs is an important step to unveil proteins' three dimensional conformation and functions. As a result, prediction of protein structures has profound theoretical and practical influence over biological study. The explanation of how a decision is made during prediction is also important for improving protein structure prediction and guiding the "wet experiments". In this talk, we will show how to use machine learning methods to improve the accuracy of protein structure prediction and to interpret prediction results. We will report our research on using neural networks, Support Vector Machines combined with Decision Tree and Association Rule for protein structure prediction, rule extraction and prediction interpretation. Evaluation and comparisons of various prediction and rule extraction systems will be presented and future research direction in this area will also be identified.

* This work was jointly with Hae-jin Hu, Jieyue He, Rob Harrison, and PC Tai.

Short Bio: Yi Pan is the chair and a professor in the Department of Computer Science and a professor in the Department of Computer Information Systems at Georgia State University. Dr. Pan received his B.Eng. and M.Eng. degrees in computer engineering from Tsinghua University, China, in 1982 and 1984, respectively, and his Ph.D. degree in computer science from the University of Pittsburgh, USA, in 1991. Dr. Pan's research interests include parallel and distributed computing, networking, and bioinformatics. Dr. Pan has published more than 100 journal papers with over 30 papers published in various IEEE journals. In addition, he has published over 100 papers in refereed conferences and co-edited 33 books (including proceedings). He has received many awards from agencies such as NSF, AFOSR, JSPS, IISF and Mellon Foundation.

Dr. Pan has served as an editor-in-chief or editorial board member for 15 journals including IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on NanoBioscience, and IEEE Transactions on Systems, Men, and Cybernetics. He has also served as a guest editor for many journals including IEEE/ACM Transactions on Computational Biology and Bioinformatics and IEEE Transactions on NanoBioscience. He has organized numerous international conferences and workshops. Dr. Pan has delivered over 10 keynote speeches at international conferences. Dr. Pan is an IEEE Distinguished Speaker (2000-2002), a Yamacraw Distinguished Speaker (2002), and a Shell Oil Colloquium Speaker (2002). He is listed in Men of Achievement, Who's Who in Midwest, Who's Who in America, Who's Who in American Education, Who's Who in Computational Science and Engineering, and Who's Who of Asian Americans.

Keynote Speech IV (Taihe Banquet Hall) 9:00 - 10:00, November 20, 2008 (Thursday)

Prof. Ji-Feng He

Academician of CAS (Chinese Academy of Sciences), China

Dean of Software Engineering Institute, East China Normal University, China

<http://www.sei.ecnu.edu.cn/teacher/head.aspx>

Title: Transaction Calculus

Abstract: Transaction-based services are increasingly being applied in solving many universal interoperability problems. Compensation is one typical feature for long-running transactions. This keynote speech presents a design model for specifying the behaviour of compensable programs. The new model for handling exception and compensation is built as conservative extension of the standard relational model. This keynote speech puts forward a mathematical framework for transactions where a transaction is treated as a mapping from its environment to compensable programs. This keynote speech proposes a transaction refinement calculus, and shows that every transaction can be converted to a primitive one which simply consists of a forward activity and a compensation module.

Short Bio: Ji-Feng He is currently a professor of computer science at East China Normal University (ECNU). He is also the Dean of Software Engineering Institute, ECNU. He graduated from the Department of Mathematics, Fudan University in 1965 and then worked in ECNU. In 1986, he was promoted to the rank of Professor. He joined in Stanford University and San Francisco University, USA during 1980 to 1981 as a Visiting Researcher. He joined Computing Lab of Oxford University, U.K. during 1983 to 1988 as a Senior Researcher. From 1998 to now, he was a senior research fellow of International Institute for Software Technology, United Nations University (UNU-IIST), Macau, China. In 2005, he was honored as CAS Academician. He has won the 2nd class award of the 2002 State Natural Science Award, the 1st-Prize of the Electronics Industry Ministry Science & Technology Achievement Award, and the 1st-Prize of the Shanghai Science & Technology Achievement Award. Recently, he was appointed as the Chief Scientist for the “ Trusted Software Fundamental Research ” as a major research plan established by the National Natural Science Foundation of China (NSFC), and he was also appointed as the Chief Scientist for the “ Theory and Practice on Coordination and Survivability for Massive Amount of Information ” project as the National Basic Research Program (“ 973 ” Program) established by the Ministry of Science and Technology (MOST).

Since 1980s, he began to engage in mathematical theory and applied research on programming. He and his collaborator presented a famous complete theory of data refinement in the papers Data Refinement Refined (1986), Prespecification in Data Refinement (1987) and Process Simulation and Refinement (1989). Based on the research on many programming languages semantics, he and C.A.R. Hoare proposed the unifying mathematical model about program and software criterion. In 1998, he and C.A.R. Hoare proposed Unifying Theories of Programming (UTP) and mathematical principle about Linking Theory (LT). He also used formal interface models to communicate with some programming languages and proposed a mathematical model and algebra law about non-deterministic dataflow. From 2006 to now, the international community has begun to organize a series of international conferences on UTP. In recent years, he has also been researching on the mathematical model about the co-design of software and hardware, which contributes to reducing the time and cost of system chip design.

He has published about 140 research papers in international journals and conferences, which have been cited more than 540 times by SCI publications. His research has significant impact on researchers and practitioners who are working in computer science from all over the world.

Keynote Speech V (Taihe Banquet Hall) 10:00-11:00, November 20, 2008 (Thursday)

Prof. Jiannong Cao, Ph.D.

Department of Computing, Hong Kong Polytechnic University, Hong Kong

<http://www.comp.polyu.edu.hk/~csjcao/>

Title: Seamless Wireless Mobile Communications for Pervasive Internet Access

Abstract: In recent years, we have seen a diversity of wireless communication systems that coexist and extend the coverage of wireless access to the Internet. The main wireless access networks include 3G, WLAN, and WMN (wireless mesh networks). The coexistence of these various technologies provides users with multiple choices with different features and advantages. It also brings new opportunities and challenges in providing seamless wireless communication service for Internet access.

In this talk, we will introduce the development of practical techniques for realizing seamless communication and mobility in heterogeneous wireless access networks. Major challenging issues and existing solutions will be described. We will also report our project on developing techniques for building an advanced WMN platform and integrating WMN to existing WLAN and cellular networks to provide pervasive Internet access. Finally, we will discuss open problems and point out future directions.

Short Bio: Jiannong Cao received the BSc degree in computer science from Nanjing University, Nanjing, China, and the MSc and the Ph.D degrees in computer science from Washington State University, Pullman, WA, USA.

He is currently a professor in the Department of Computing at Hong Kong Polytechnic University, Hung Hom, Hong Kong. He is also the director of the Internet and Mobile Computing Lab in the department. Before joining Hong Kong Polytechnic University, he was on the faculty of computer science at James Cook University and University of Adelaide in Australia, and City University of Hong Kong. His research interests include mobile and pervasive computing, computer networking, parallel and distributed computing, and fault tolerance. He has published over 250 technical papers in the above areas. His recent research has focused on wireless networks and mobile and pervasive computing systems, developing test-bed, protocols, middleware and applications.

Dr. Cao is a senior member of China Computer Federation, a senior member of the IEEE, IEEE Computer Society, and the IEEE Communication Society, and a member of ACM. He is the Coordinator in Asia of the Technical Committee on Distributed Computing (TPDC) of IEEE Computer Society. He is also a member of the IEEE Technical Committee on Distributed Processing, IEEE Technical Committee on Parallel Processing, IEEE Technical Committee on Fault Tolerant Computing. He has served as an associate editor and a member of editorial boards of several international journals, a reviewer for international journals / conference proceedings, and also as a chair and member of organizing / program committees for many international conferences.

Keynote Speech VI (Taihe Banquet Hall) 11:30-12:30, November 20, 2008
(Thursday)

Assistant Professor Yunhao Liu, Ph.D.

Department of Computer Science, Hong Kong University of Science and Technology, Hong Kong

<http://www.cse.ust.hk/~liu/>

Title: Mobile and Pervasive Computing : Localization and Modeling

Abstract: Positioning is a crucial part of many location-dependent applications in pervasive computing, mobile computing and wireless sensor network fields. Current localization approaches can be divided into two groups: range-based and range-free. Due to high costs and critical assumptions, the range-based schemes are often impractical. The existing range-free schemes, on the other hand, suffer from poor accuracy and low scalability. In this talk, we will discuss our Rendered Path (REP) protocol. To the best of our knowledge, REP is the first range-free protocol for locating sensors in anisotropic sensor networks. We are also going to introduce the deployment of a real working WSN system for a sea depth measurement application, as well as how we employ different range-free or semi-range-free localization approaches.

Short Bio: Yunhao Liu received his BS degree in Automation Department from Tsinghua University, China, in 1995, and an MA degree in Beijing Foreign Studies University, China, in 1997, and an MS and a Ph.D. degree in Computer Science and Engineering at Michigan State University in 2003 and 2004, respectively. He is now with the Department of Computer Science at Hong Kong University of Science and Technology. He serves as adjunct professor at Xi ' An Jiaotong University, Jilin University, North East University, and Ocean University of China. His research interests include pervasive computing and sensor networking, peer-to-peer computing, and network security. He and his PhD student Li Mo won the grand prize of Hong Kong Best Innovation and Research Award 2007.

IV. YOCSEF Forum

Room 1, 14:00-18:00, November 19, 2008 (Wednesday)

Title: What Can We Do in the Face of Country Demand in China?

Invited Speakers:

Prof. Dafang Zhang, Hunan University, China

Prof. Shimin Hu, Tsinghua University, China

Prof. Kerong Ben, Naval University of Engineering, China

Prof. Minglu Li, Shanghai Jiao Tong University, China

Executive Chairs:

Prof. Guojun Wang, Central South University, China

Prof. Xinjun Mao, National University of Defense Technology, China

Prof. Zhigang Chen, Central South University, China

Prof. Junmin Ye, Wuhan University, China

Abstract: After three decades of reform and opening up, China has made remarkable progress in politics, economics and comprehensive national strength, with its international status rising into an unprecedented level. However, China still relies on foreign countries for many key technologies. This brings great challenges to the economic development and state security in China. The Eleventh Five-Year Plan for Science and Technology Development in Information Industry and the Medium and Long-Term Planning Framework for 2020 which have been introduced by the Ministry of Information Industry of China in 2006, points out some key technologies in 15 fields for the next 5 to 15 years, including integrated circuit, software technology, new electronic component technology and so on. It also develops many important projects such as service platform for information technology, transition platform for scientific research and service system. It is highly expected that leaders, experts and scientific personnel from governmental departments, enterprises and universities pay attention to these key fields and projects.

The special forum in the 9th International Conference for Young Computer Scientists (ICYCS2008), also regarded as a special forum in the China Computer Federation Young Computer Scientists and Engineers Forum (YOCSEF), will invite leaders, experts and scientific personnel from governmental departments, enterprises and universities to discuss the grand demand in China and offer comments and suggestions for developing the information industry in China.

V. Panel Discussion

Room 1, 14:00- 17:00, November 20, 2008 (Thursday)

Title: Killer Applications in Pervasive Computing

Chair: Minyi Guo, Shanghai Jiao Tong University, China

Panel list:

Prof. Weijia Jia, City University of Hong Kong, Hong Kong

Prof. Minglu Li, Shanghai Jiaotong University, China

Dr. Yunhao Liu, Hong Kong University of Science and Technology, Hong Kong

Dr. Nicolai Kuntze, Fraunhofer Institute for Secure Information Technology, Germany

Dr. Jingyu Zhou, Shanghai Jiao Tong University, China

Abstract: Today, handheld devices exist that can function as a cellular phone, video camera and a PDA, all in one box. Also, wireless service providers have started offering numerous data services over their networks. With all these diverse technologies coming together, the vision of “ pervasive computing ” , anywhere, anytime data access on any device is finally beginning to take shape.

In order to migrate from a pervasive computing vision into reality, fundamental issues in numerous areas, including networking, data management and security among others, have to be addressed. The need above all is that of .killer applications with mass appeal that are economically attractive. This panel discussion will debate what kinds of applications are appropriate for the future intelligent pervasive world: smart home, remote health care, common service, or social security etc. Additionally, this panel will also discuss which kinds of techniques and infrastructures should be supported for these killer applications.

VI. Miscellaneous Issues

(I) Registration Information

1. On-site Registration: Please make on-site registration in the lobby of Wulingyuan International Resort. Participants, who have already made pre- or post-registration, please check the following information.

2. Please get the invoice or receipt for your registration.

3. Please also get the following items: a copy of the IEEE CS proceedings (in CD-ROM), Conference Program, Conference Guidelines, Lunch/Dinner Tickets and Conference Souvenirs (a laptop bag).

(II) Conference Hotels

1. After Registration, please check in at your reserved hotel. If you have reserved Tianzi Hotel, you should either wait for the bus in the lobby of Wulingyuan International Resort or walk there about 10 minutes by yourself.

2. If you made the hotel reservation before October 30, you will have privileges to select room type. For on-site registrants, the conference staff will negotiate with the hotel staff to try to meet your requirements. You can contact the coordinators, Mr. Yu Sheng by 13975888555, or Mr. Zhaohui Dai by 13707310396.

3. The hotel fee includes breakfast.

(III) Conference Services

1. Conference Staff Rooms

(1) Room No. 8-3601 (Interior Phone: 83601); Room No. 8-3604 (Interior Phone: 83604)

(2) Wulingyuan International Resort Hotel Operator Phone: 0744-5668888

2. Conference Staff Phone Numbers

(1) General Coordinators: Ming Liu 13974970079; Zhaohui Dai 13707310396; Qian Zhou 139074823335

(2) Academy Group: Zhuping Zhang 13607431309; Huamei Qi 13787780840

(3) Registration Group: Qian Zhou 139074823335

(4) Rear services Group: Zhaohui Dai 13707310396; Zhiwen Zeng 13548973468

(5) Travel Advisory Services: MingSheng Huang 13787449988, Zhangjiajie Lantian Holiday Travel Agency

(IV) Conference Resources Download

1. You can download conference pictures at:

(1) http://trust.csu.edu.cn/conference/icycs2008/english/Conference_Pictures.htm

(2) http://trust.csu.edu.cn/conference/icycs2008/chinese/Conference_Pictures.htm

2. You can download a variety of conference materials at: <http://www.csu.edu>.

cn/ICYCS2008

(1) Plenary keynote presentations

(2) Symposium/workshop specific reports and relevant resources (which are allowed to open by authors)

(3) Record files for videos and audios about the Conference

(V)Contact Information

For further questions regarding the conference organization and the conference program, please contact Prof. Zhigang Chen by 13508490353, and Prof. Guojun Wang by 13508486821.

VII. Advance Program for ICYCS -08, TrustCom -08, IWCSEI-08, and IWCFTA-08

Tuesday, November 18, 2008

08:00-17:00 Registration

12:30-14:00 Lunch

14:00-14:30

TrustCom08 Opening Ceremony (Room R1)

IWCSEI08 Opening Ceremony (Room R2)

IWCFTA08 Opening Ceremony (Room R3)

14:30-15:00 Coffee Break

15:00-16:00

TrustCom08 Keynote Speech I (Room R1)
Jianhua Ma (Hosei University, Japan)
From Trusted Computing to Ubisafe Computing

IWCSEI08 Keynote Speech I (Room R2)
Nick Bao (Intel Corporation, China)
Embrace Future through Innovation

IWCFTA08 Keynote Speech I (Room R3)
Jiu Ding (The University of Southern Mississippi, USA)
Dynamical Geometry:

From Order to Chaos and Sierpinsky Pedal Triangles

16:00-17:00

TrustCom08 Keynote Speech II (Room R1)
Indrakshi Ray (Colorado State University, USA)
Securing Pervasive Computing Applications

IWCFTA08 Keynote Speech II (Room R3)
Yuming Shi (Shandong University, China)
Discrete Chaos Theory and its Application to Anti-Control of Chaos

17:00-18:00

IWCFTA08 Keynote Speech III (Room R3)
Xingyuan Wang (Dalian University of Technology, China)
The Application of Nonlinear Theory in Computer Science

16:00-18:00

IWCSEI08 Session E1 (Room R2)
Education Theory Chair: Haiwei Jin, Zhejiang Gongshang University, China

Discuss on Applying SPC to Quality Management in University Education
Ziren Wang, and Ronghua Liang

Thought and Tentative Idea of Reform in Formative Assessment
Jian Xiang, and Lv Ye

Enhancing Foundation to Foster Competence of Independent College Students
Jianjun Xie, Junhong Li, and Yi Geng

Research about the Model of Quality-Oriented Education and Ability Cultivation to College Students
Youtian Qu, and Chaonan Wang

Discussion on Computer Education Mode of Engineering Course in Independent College
Jialin Cui, Yigang Wang, Shengli Fan, Zhuoyuan Wang, and Shenghuai Xu

An Approach of Multi-Tactics in Programming Language Education
Haiwei Jin

Research on the Teaching Reform of Operating System Courses
Jinfeng Dou, Jiabao Cao, Yongguo Jiang, and Zhongwen Guo

Dynamics Modeling and Simulation in Software Engineering Education
Minghui Wu, and Hui Yan

IWCSEI08 Session E2 (Room R5)
Teaching Approach Chair: Jianfeng Yang, Wuhan University, China

An Undergraduate Parallel and Distributed Computing Course in Multi-Core Era
Jianhua Li, Weibin Guo, and Hong Zheng

Research on the Diversification Training Mode of Software Talents Based on University-Enterprise Cooperation
Penglin Li, Zhi Liu, and Xingbo Guo

Teaching Design Patterns: A Modified PBL Approach
Hong Huang, and Dongyong Yang

A Reflective Learning Model to Computer Undergraduates
Muyun Yang, Lixin Wang, Haoliang Qi, Tiejun Zhao, and Sheng Li

A New Approach to Teaching Logic in Discrete Mathematics
Yi Li

Exploring the Way of Training High-Level Software Talents with Global Reach in China
Huifang Deng

Practice and Discussion on a New Teaching Mode of "Case Guide Learning" in Basic of Database Application
Xiaoqing Feng, and Jianping Han

Using cP2BL in Teaching Multi-Core Related Contents
Jianfeng Yang, Yinbo Xie, Qing Geng, Jolly Wang, and Nick Bao

17:00 - 19:00

TrustCom08 Session T1A (Room R1)
Trust Model, Propagation and Management
Chair: Jianming Fu, Wuhan University, China

Dynamic Keys Based Sensitive Information System
XianPing Wu, Phu Dung Le, and Balasubramaniam Srinivasan

A Time-Related Trust Model Based on Subjective Logic Theory
Yueming Deng, and Guojun Wang

Propagation Model of Active Worms in

P2P Networks

Chaosheng Feng, Zhiguang Qin, Laurence Cuthbet, and Laurissa Tokarchuk

Timed CSP for Safety Specification of Hybrid System

Jinzhao Wu, and Shihan Yang

Behavior-Aware Role Based Trust Management

Lan Li, Shaojun Zhang, and Lei Fan

Trustworthiness and Quality of Context Information

Ricardo Neisse, Maarten Wegdam, and Marten van Sinderen

A Search Method for the Network of Interpersonal Trust

Zhenhai Yang, Sheng Ge, and Gang Li

TrustCom08 Session T2A (Room R8)

Trusted Services and Applications Chair: Ruixuan Li, Huazhong University of Science and Technology, China

Efficient Hardware for Modular Exponentiation Using the Sliding-Window Method with Variable-Length Partitioning
Nadia Nedjah, and Luiza de Macedo Mourelle

Attacks vs. Countermeasures of SSL Protected Trust Model

Fang Qi, Zhe Tang, and Guojun Wang

Trust in Business Processes

Nicolai Kuntze, Andreas U. Schmidt, Zaharina Velikova, and Carsten Rudolph

A New Approach to Securing Broadcast Data in Sensor Networks

A.S. Poornima, and B.B. Amberker

A Trust-Enabling Support for Goal-Based Services

Luiz Olavo Bonino da Silva Santos, Luis Ferreira Pires, and Marten van Sinderen

Developing a Trusted System for Tracking Asset on the Move

Tianle Zhang, Zongwei Luo, Feng Zhou, and Xudong Yang

Study and Implementation of a Solution to Security Management for Mobile Environments Based on Tuple

Desire Nguessan, and Jose Sidnei Colombo Martini

TrustCom08 Session T3A (Room R9)

Cryptography and Security Protocols Chair: Dongjun Huang, Central South University, China

Correlation Power Analysis Attack against Synchronous Stream Ciphers

Keke Wu, Huiyun Li, Bo Peng, and Fengqi Yu

A Byte-Filtered String Matching Algorithm for Fast Deep Packet Inspection

Kun Huang, and Dafang Zhang

Analysis of Electronic Commerce Protocols Based on Extended Rubin Logic

Yang Xu, and Xiaoyao Xie

On the Linear Structures of Cryptographic Rotation Symmetric Boolean Functions

Esam Elsheh

Modified Huang-Wang's Convertible

Nominative Signature Scheme
Wei Zhao, and Dingfeng Ye

18:00 - 20:00 Dinner

Wednesday, November 19, 2008

A Secure and Reliable Platform Configuration
Change Reporting Mechanism for Trusted
Computing Enhanced Secure Channels
Kurt Dietrich

08:00 - 17:00 Registration

08:30 - 09:00 ICYCS08 Opening
Ceremony (Taihe Banquet Hall)

TrustCom08 Session T4A (Room
R10)

09:00 - 10:00

Reliable, Survivable and Fault-Tolerant
Computer Systems/Networks Chair: Yun
Ge, Central South University, China

Keynote Speech I (Taihe Banquet
Hall):

Michael A. Langston (University of Tennessee,
USA) Combinatorial Analysis of High-
Throughput Transcriptomic Biological
Data

Enhanced Correlation Power Analysis
Attack on Smart Card

Huiyun Li, Keke Wu, Bo Peng, Yiwei
Zhang, Xinjian Zheng, and Fengqi Yu

10:00 - 11:00

Analysis on the 'Robust Yet Fragile'
Nature of Internet: Load, Capacity and the
Cascading Failure Avalanche Effect

Chi Guo, Li-Na Wang, Furong Zhou, Lai-
Nv Huang, and Zhen Peng

Keynote Speech II (Taihe Banquet
Hall):

Michael R. Fellows (The University of Newcastle,
Australia) How to Prove W-hardness and
Why You Might Want to

A Route Flap Suppression Mechanism
Based on Dynamic Timers in OSPF
Network

Fang Wang, Shanzhi Chen, Xin Li, and
Yuhong Li

11:00 - 11:30 Coffee Break

A PIN-Based Dynamic Software Fault
Injection System

Ang Jin, Jianhui Jiang, Jiawei Hu, and
Jungang Lou

11:30 - 12:30

Keynote Speech III (Taihe Banquet
Hall):

Yi Pan (Georgia State University, USA) Protein
Structure Prediction and its Understanding
Based on Machine Learning Methods

A Formal Approach to Robustness Testing
of Network Protocol with Time Constraints
Chuanming Jing, Xia Yin, Zhiliang Wang,
and Jianping Wu

12:30 - 14:00 Lunch

14:00 - 18:00 China Computer
Federation YOCSEF Special Forum
(Room R1)

14:00 - 16:00

ICYCS08 Session S3C1A (Room R2)
Network Theory Chair: Moon Ho Lee,
Chonbuk National University, Korea

On Evolution of Cooperative Overlay Network
Based on Group Selection Mechanism
Yufeng Wang, and Akihiro Nakao

Property Preservation by Petri-net-based
Refinements in System Design
Chuanliang Xia

A New Algorithm for Network Diameter
Rui Yang, Shijie Zhou, and Chengyu Fan

Cost Minimization for Multi-Source
Multi-Sinks Network Coding
Rami Youail, Winqing Cheng, and
Shaoguo Tao

A Novel Management Information Retrieval
Algorithm Based on NGI
Jinxiang Zhang

A Class of Petri Nets for Modular and
Hierarchical System Modeling
Zhijian Wang, and Dingguo Wei

A Crosslayer Concurrent Multipath Random
Forward Algorithm
Laiquan Han, Jinkuan Wang, and Cuirong
Wang

Privacy-Preserving Query Based on Virtual
Organization in Grid Database
Naijing Hu, Huan Zhou, and Liang Zhao

ICYCS08 Session S4C1A (Room R3)
Information Management System Chair:

Zhijian Wang, Guangdong University of
Business Studies, China

Revisit Bayesian Approaches for Spam
Detection
Chun-Chao Yeh, and Soun-Jan Chiang

Multi-Agent Automated Intelligent
Shopping System (MAISS)
Lasheng Yu, Emmanuel Masabo, Lian
Tan, and Manqing He

Performance Analysis of Resource Allocation
Algorithms Using Cache Technology for
Pervasive Computing System
Mianxiong Dong, Minyi Guo, Long Zheng,
and Song Guo

Transferring Landmarks to Individual
Foot Using Deformable Template Models
Bin Liu, Ning Shangguan, Junyi Lin, and
Kaiyong Jiang

Research on 3D Seismic Data Visualization
System Based on Windows
Jie Li, Fangzhou Zhang, Yingying Niu ,
Xiaoyu Sheng, and He Yan

A Chinese Paper Cut-out System Based on
Decorative Pattern Recognition
Linlin Shui, Minyong Shi, Weiguo Lin, and
Jianxiang Cao

Human Action Recognition Using Manifold
Learning and Hidden Conditional Random
Fields
Fawang Liu, and Yunde Jia

Temporal Data Driven Naive Bayesian
Text Classifier
Lili Hao, and Lizhu Hao

ICYCS08 Session S1C1A (Room R5)
Data Structures and Algorithms I Chair:
Ebrahim Malalla, Ahlia University, Bahrain

Multiple-Choice Allocations with Fixed
Densities
Ebrahim Malalla

Exact Heuristic Algorithm for Traveling
Salesman Problem
Dongmei Lin, Xiangbin Wu, and Dong
Wang

Design and Evaluation of Sectional Real-
Time Scheduling Algorithms Based on
System Load
Wanfu Ding, and Ruifeng Guo

An Improved Method for Computing
Dixon Resultant
Yaohui Li, Yong Feng, and Jiwei Xue

An Algorithm for Dynamic Optimal Path
Selection with Constraint
Xiaogang Qi, Lifang Liu, and Sanyang Liu

The Partition Transfer Algorithm of Join
Query
Xianxia Zou, Weijia Jia, Jiuhui Pan, and
Wei Du

Multi-Label Classification Based on
Association Rules with Application to
Scene Classification
Bo Li, Hong Li, Min Wu, and Ping Li

Quick Searching Based on L - K Means
Hierarchical Clustering in a Huge Scale
Face Database
Xiaohua Liu, Chunguang Zhou, Libiao
Zhang, Huipeng Sheng, and Jiangchun Li

ICYCS08 Session S5C1 (Room R6)
System Programming Chair: Ji Wang,
National Laboratory for Parallel and
Distributed Processing, China

Dataflow Visual Programming Language
Debugger Supported by Fisheye View
Yangyi Sui, Lili Pang, Jun Lin, and
Xiaotuo Zhang

A Comparison of C/C++-Based Software/
Hardware Co-Design Description Languages
Ge Hu, Shengbing Ren, and Xie Wang

Research on Model of Dual Core Aspectual
Middleware & Dynamic Weaving Technology
Bin Wang, Jian Ding, Wei Zhu, Yunqiao
Tan, and Jinfang Sheng

Efficient Top-k Keyword Search on XML
Streams
Lingli Li, Hongzhi Wang, Jianzhong Li,
and Jizhou Luo

Low Power Optimization for MPI
Collective Operations
Yong Dong, Juan Chen, Xuejun Yang,
Canqun Yang, and Lin Peng

Scheduling Real-Time Nested Transactions
in Mobile Broadcast Environments
Xiangdong Lei, Wuke Li, and Xiaoali Yuan

A Subsystem Division Method by Clustering
Zhijian Wang
Energy-Saving Service Schedule for Low-
End Cyber-Physical Systems
Wei Jiang, Guangze Xiong, and Xuyang
Ding

ICYCS08 Session S7C1A (Room R7)
Data Security Chair: Jin-Cherng Lin,
Tatung University, Taiwan

PKI Mesh Trust Model Based on Trusted
Computing
Changping Liu, Yong Feng, Mingyu Fan,
and Guangwei Wang

A Fingerprint Matching Algorithm Based
on B-Spline Curve
Huaqiang Yuan, Weimin Xiao, and
Guoqiang Han

Security Analysis and Improvement of
Two Signature Schemes
Jianhong Zhang, and Jianjun Xie

An XSL Analysis on BES
Buyun Qu, and Lianhao Liu

A Robust Adaptive Video Watermarking
Algorithm Based on HVS
Guangxi Chen, Yan Cheng, and Yinghao
Wang

A Generalized Matrix-Based Scrambling
Transformation and its Properties
Xiongjun Li

An Encryption Algorithm for 2D
Engineering Graphics ' Content Based on
Chaos Systems
Shuaijun Li, and Fei Peng

Exposing Digital Forgeries by Detecting
Traces of Smoothing
Ying Chen, and Yuping Wang

TrustCom08 Session T1B (Room R8)
Trust Model, Propagation and Management

Chair: Xiaoheng Deng, Central South
University, China

An Affair-Based Interpersonal Trust
Metric Calculation Method
Gang Li, Sheng Ge, and Zhenhai Yang

DBTG: Demand-Driven Backtracking
Test Generation
Shaoyin Cheng, Fan Jiang, Jiajie Wang,
Tao Zhang, and Xuezhi Xing

Trusted Transmission Protocol for Content
Security
Li Li, Guosun Zeng, and Bo Chen

Constructing Trust Networks Based on
Small-World Theories
Jun Zheng, Yan Qin, Jianyong Zhu, and
Xinyou Li

FCTrust: A Robust and Efficient Feedback
Credibility-Based Distributed P2P Trust
Model
Jianli Hu, Quanyuan Wu, and Bin Zhou

A Cost Model Analysis of a Secure Key
Distribution Centre
Yishi Zhao, and Nigel Thomas

Trust Path-Searching Algorithm Based on
PSO
Zhiwen Zeng, Ya Gao, Zhigang Chen, and
Xiaoheng Deng

IWCSEI08 Session E3 (Room R9)
Curriculum Reform Chair: Youtian Qu,
Zhejiang Normal University, China

Learning from Practicing: Adaptation of
NIIT (India) Model for Software Developer

Training to Chinese Higher Vocational & Technical Colleges

Luo Li, Shaogen Wu, and Jia Luo

The Discussion and Design of Innovative Education Mode in the College and University

Youtian Qu, and Chaonan Wang

A New Evaluation Method Based on Measuring of Medium Truth Scale

Ningning Zhou, Zhengxu Zhao, and Yulong Deng

Research and Design of Educational Resource Information Center for Investors Based on J2EE

Kai Cao, and Xiaoyun Zhu

A Framework of Deriving Adaptive Feedback from Educational Ontologies

Ben Liu, Hejie Chen, and Wei He

A Linux - Based Development and Application of Automatic Test System

Wen Ding, Qing Wu, Weihua Hu, Zhiling Hu, and Hongbiao Xie

The Research in Grade Teaching of Elementary Course of Computer

Haijun Mao, Haiyan Ma, Hong Zhuang, and Penyin Wang

IWCFTA08 Session F1 (Room R10)

Chaos-Fractals Theories and Applications
Chair: Xiangdong Liu, Dalian Nationalities University, China

A Hybrid Forecasting Model Based on Chaotic Mapping and Improved v-Support Vector Machine

Qi Wu, Hongsen Yan, and Hongbing Yang

Application of Multivariable Time Series Based on RBF Neural Network in Prediction of Landslide Displacement

Yao Zeng, Echuan Yan, Chunfeng Li, and Ying Li

Vibration Signal Analysis of Rotor System Based on Time-Frequency Attributes

Ling Xiang, Guiji Tang, and Yongli Zhu

Analyzing the Self-Similarity of the TCP Bulk Flow

Xiangdong Liu, Junxing Zhang, Jinhai Zhang, and Xinqin He

Forecasting Air Quality Based on Chaotic Full - Area Method

Guoran Rao, and Ping Liang

Prediction of Vessel Traffic Accident Based on Chaotic Theory

Jinyong Zhou, Lan Gao, and Qing Hua

Chaotic Behavior of Ship Swaying Motions in Irregular Waves

Jianjun Hou, Fang Dong, and Yundong Han

Experimental and Simulation Investigation in Fractal Dimension of Supersonic Combustion

Haiyan Wu, Hongbo Wang, Mingbo Sun, and Jin Zhou

16:00 - 16:30 Coffee Break

16:30 - 18:30

ICYCS08 Session S3C1B (Room R2)

Network Theory Chair: Jin Zheng, Central

South University, China

Approximate Performance Analysis of Job Scheduling on Computational Grids
Zhiguang Shan, and Chuang Lin

Grid Load Balancing Scheduling Algorithm Based on Statistics Thinking
Bin Lu, and Hongbin Zhang

Bayesian Network Based QoS Trustworthiness Evaluation Method in Service Oriented Grid
Yi Fu, Zhigang Hu, and Qingjun Zhang

On Graph Embedding of Crossed Cube-Connected Ring Networks
Xin Yu, Min Wu, Taoshen Li, and Zhaowen Wei

Characterizing Churn in Gnutella Network in a New Aspect
Fuhong Lin, Changjia Chen, and Hongke Zhang

An Global Uneven Clustering Protocol Based on Collision Decreasing in Environment Integrated Surveillance
Yijun Wang, Junbin Liang, and Jianxin Wang

A Channel-Aware Scheduling Algorithm for Improving TCP Fairness
Jiawei Huang, Jianxin Wang, Yuhong Luo, and Jin Ye

Requirement Driven Service Agent Coalition Formation and Negotiation
Liwei Zheng, Jian Tang, and Zhi Jin

ICYCS08 Session S4C1B (Room R3)

Information Management System Chair:
Jianxin Wang, Central South University, China

A Novel Statistic-Based Relaxed Grid Resource Reservation Strategy
Peng Xiao, Zhigang Hu, Xi Li, and Liu Yang

Digital Product Information Sharing Based on STEP and XML
Xiaoli Qiu, Xun Xu, and Zhonghua Ni

Privacy Preserving Spatial Outlier Detection
Anrong Xue, Xiqiang Duan, Handa Ma, Weihe Chen, and Shiguang Ju

A Fast Algorithm to Estimate Mutual Information for Image Registration
Yongxiang Hu, Jingtian Tang, Hong Jiang, and Sancheng Peng

Business Process Mining Based on Simulated Annealing
Wei Song, Shaozhuo Liu, and Qiang Liu

Simulation on Kinematics Law of Pedestrian in Vehicle/Pedestrian Contacting Phase
Yanhui Fan, Hongguo Xu, and Xibo Liu

A Data Sharing Platform for Materials Service Safety Appraisalment
Peng Shi, and Lianhong Ding

Improved Metrics for Encapsulation Based on Information Hiding
Yong Cao, and Qingxin Zhu

ICYCS08 Session S1C1B (Room R5)
Data Structures and Algorithms I Chair:
Gui Gui, University of Essex, UK

Algorithm Research of Flexible Graphplan Based on Heuristic

Yang Li, Yan Sun, Chengshan Han, Xiaodong Wang, and Shuyan Xu

An Edit Distance Algorithm with Block Swap

Tian Xia

Hardness of Approximation Algorithms on k -SAT and (k,s) -SAT Problems

Tianyan Deng, and Daoyun Xu

Hybrid SAT Solver Considering Circuit Observability

Xiuqin Wang, Hao Wang, and Guangsheng Ma

OpenMail File System Workloads Analysis and Characterization

Qiang Zou, and Dan Feng

A Novel ROI-Based Rate Control Scheme for H.264

Yunhui Shi, Shaoyuan Yue, Baocai Yin, and Yi Huo

A Fast Frequent Subgraph Mining Algorithm

Jia Wu, and Ling Chen

A Type of Variation of Hamilton Path Problem with Applications

Jitian Xiao, and Jun Wang

ICYCS08 Session S5C2A (Room R6)
Application Programming Chair: Zhong Ming, Shenzhen University, China

An Approach to Software Architecture Testing

Lijun Lun, and Hui Xu

Research on Translucent Mechanism-Based Infeasible Path

Lili Pan, Beiji Zou, Hao Chen, and Haoyu Zhou

Video Mosaic Block Detection Based on Template Matching and SVM

Xiaodong Huang, Huadong Ma, and Haidong Yuan

User Profile Management for Personalized Telecom Service

Huan Wang, Xiaomin Shi, Yan Li, Heng Chang, Weiliang Chen, and Jie Tang

A Runtime-Monitoring-Based Dependable Software Construction Method

Jun Zhu, Changguo Guo, Quan Yin, Jianlu Bo, and Quanyuan Wu

Software Architectural Reflection Mechanism for Runtime Adaptation

Zhiyong He, Kerong Ben, and Zhixiang Zhang

Applying a Component Behavior Model to MVC Pattern

Fangyuan Zheng, Hao Hu, and Jian Lv

Generating Test Cases of Object-Oriented Software Based on EDPN and its Mutant

Hongfang Gong, and Junyi Li

ICYCS08 Session S7C1B (Room R7)

Data Security Chair: Qin Li, Sun Yat-Sen University, China

Asymmetric Watermarking Method Based on Subspace Projection

Mi He, and Lizhi Cheng

A Blind Watermarking Algorithm for Color Image Based on Wavelet Transform and Fourier Transform
Anfeng Hu, and Ning Chen

An Optimized Natural Language Watermarking Algorithm Based on TMR Model
Peng Lu, Zhao Lu, Zili Zhou, and Junzhong Gu

A Game Theoretic Approach Based Access Control Mechanism
Ming Zhao, Jinqiang Ren, Huiping Sun, Suming Li, and Zhong Chen

An Automatic Mechanism for Sanitizing Malicious Injection
Jin-Cherng Lin, Jan-Min Chen, and Cheng-Hsiung Liu

Hierarchical Proxy Blind Signature: A Solution to E-cash in the Real World
Zuowen Tan, and Hongguang Xiao

A Prioritized Chinese Wall Model for Managing the Covert Information Flows in Virtual Machine Systems
Ge Cheng, Hai Jin, Deqing Zou, Alex K.ohoussou, and Feng Zhao

A Digital Watermarking Algorithm Based on Dual-Tree Complex Wavelet Transform
Hongxing Lan, Songqiao Chen, Taoshen Li, and Aina Hu

TrustCom08 Session T2B (Room R8)
Trusted Services and Applications Chair:
Zhe Tang, Central South University, China

A Number Theoretic Memory Bounded Function and its Applications

Qi Cheng, and Yu-Hsin Li

Protection against Mobile Adversaries in Mobile Ad-Hoc Networks
Ronghua Shi, and Yanhua Yan

Scheduling Framework and Algorithms for Large-Scale Divisible Load Processing with Multi-Dimensional QoS Constraints
Kaibo Wang, Xingshe Zhou, and Shandan Zhou

Trusting Anomaly and Intrusion Claims for Cooperative Distributed Intrusion Detection Schemes of Wireless Sensor Networks
Riaz Ahmed Shaikh, Hassan Jameel, Brian J. d' Auriol, Sungyoung Lee, Young-Jae Song, and Heejo Lee

A Credit Mechanism Based on Automatic Audit in P2P File Sharing Systems
Ruixuan Li, Cuihua Zuo, Yuntian He, and Zhengding Lu

Copyright Protection Using A Computational Watermarking Scheme
Qi Jiang, Dongfeng Han, Yi Li, and Wenhui Li

Validating X.509 Certificates Based on Their Quality
Ahmad Samer Wazan, Romain Laborde, Francois Barrère, and Abdelmalek Benzekri

IWCSEI08 Session E4 (Room R9)
Curriculum Improvement Chair: Qingsong Shi, Zhejiang University, China

Theory and Application of School-Based Education Quality Evaluation Model Constructed from Improved AHP Method

Yu Chen, Yuefeng Zheng, Song'en Sheng,
and Jianqing Shi

A Method of Elicitation Teaching for
Object-Oriented Analysis and Design
Curriculum
Huiqiang Lin, Caixing Liu, and Piyuan Lin

Research on the Teaching Method of
Combining the Theory and Practice in
Data Structure Course
Zhi Liu, Huaguo Jia, and Shanshan Han

Reform and Practice in Teaching J2EE
Programming
Guanlin Chen, and Wenying Weng

Research on Teaching Reform of Computer
Basic Courses in Technology Universities
Xuming Han, Limin Wang, Wanli Zuo,
Hongzhi Wang, and Guojun Chen

Personalized Instructing Recommendation
System Based on Web Mining
Liang Zhang, Xiumin Liu, and Xiujuan
Liu

Practical Training in the Embedded
System Education: A New Way to Narrow
the Gap with Industry
Hongjun Dai, Zhiping Jia, Xueqing Li, and
Yitao Guo

Introduction to the Reform on the Course
of Fundamental Logic and Computer
Design
Qingsong Shi, Wei Hu, Sha Liu, and Tianzhou
Chen

IWCFTA08 Session F2 (Room R10)
Complex Network Modeling Chair:

Guoping Jiang, Nanjing University of Posts
and Telecommunications, China

The Study on Fractals of Internet Router-
Level Topology
Jun Zhang, Hai Zhao, Guilan Luo, and
Yan Zhou

Scientific Collaboration Network Evolution
Model Based on Motif Emerging
Xiuchun Shi, Longde Wu, and Hongyong
Yang

Hash Function Construction Based on
Chaotic Coupled Map Network
Yurong Song and Guoping Jiang

Analytical Criteria for the Local Activity of
Three-Port CNN with Five State Variables:
Analysis and Application
Yu Ji, Lequan Min, and Yan Meng

Nonlinear Dynamic Characteristics of
Traffic Flow Based on Continuous Car-
Following Model with Nonintegral
Exponent
Zhiwen Zhu, Hongli Wang, Hongchen
Han, and Jia Xu

A New Susceptible-Infected Model of
Malware Propagation in the Internet
Yiran Gu, Yurong Song, Guoping Jiang,
and Suoping Wang

Research and Analysis of Securities Market
Based on Multi-Fractal Generator
Zhiliang Zhu, Jingping Song, Aoshuang
Dong, Hai Yu, and Ye Yang

18:00-20:00 Welcome Reception

Internet Technology Chair: Dayang Sun,
Jilin University, China

Thursday, November 20, 2008

08:00-17:00 Registration

Quality Context Configuration for SOA
Registry Classification
Youngkon Lee

09:00-10:00

Keynote Speech IV (Taihe Banquet
Hall):

Ji-Feng He (East China Normal University,
P. R. China) Transaction Calculus

Research of Improved QoS of Data Transmission
in Bluetooth Mobile P2P Networks
Hui Ye, Zhigang Chen, and Qinhu Li

10:00-11:00

Improved Algorithm for Dynamic Web
Services Composition
Liping Liu, Anfeng Liu, and Ya Gao

Keynote Speech V (Taihe Banquet
Hall):

Jiannong Cao (Hong Kong Polytechnic
University, Hong Kong) Seamless Wireless
Mobile Communications for Pervasive
Internet Access

A Self-learning Vertical Search Spider for
Travel
Suke Li, Zhong Chen, Liyong Tang, and
Zhao Wang

11:00-11:30 Coffee Break

Rate Adaptive Real-Time Video Transmission
Scheme over TCP Using Multi-Buffer
Scheduling
Yonghua Xiong, Min Wu, and Weijia Jia

11:30-12:30

Keynote Speech VI (Taihe Banquet
Hall):

Yunhao Liu (Hong Kong University of
Science and Technology, Hong Kong) Mobile
and Pervasive Computing: Localization and
Modeling

Using P2P Network to Transmit Media
Stream in SIP-Based System
Xiuwu Zhang, Weimin Lei, and Wei Zhang

12:30-14:00 Lunch

An Improved TCP with Cross-Layer
Congestion Notification over Wired/
Wireless Hybrid Networks
Jin Ye, Jianxin Wang, Qinghua Liu, and
Yuhong Luo

14:00-17:00 Panel Discussion (Room
R1)

Design and Implementation of a Network
Behavior Analysis-oriented IP Network
Measurement System

14:00-16:00

Bin Zeng, Dafang Zhang, Wenwei Li,
Gaogang Xie, and Guangxing Zhang

ICYCS08 Session S3C2A (Room R2)

ICYCS08 Session S4C2A (Room R3)
Computer Graphics and Image Processing
Chair: Bei Ji Zou, Central South University,
China

An Adaptive Watermarking Scheme Based
on Nonsampled Contourlet Transform
for Color Image Authentication
Dongyan Liu, Wenbo Liu, and Gong
Zhang

Image Retrieval Based on MPEG-7
Dominant Color Descriptor
Hong Shao, Yueshu Wu, Wencheng Cui,
and Jinxia Zhang

Pre-processing of X-Ray Medical Image
Based on Improved Temporal Recursive
Self-Adaptive Filter
Hong Zhu, Weizhen Sun, Minhua Wu,
Guixia Guan, and Yong Guan

Research on Adaptive Preprocessing
License Plate Location
Xing Yang, Chaochao Huang, and Hua
Yang

A Compression Framework for Personal
Image Used in Mobile RFID System
Wei Jiang, and Dong Xiang

A Fast Mesh Simplification Algorithm Based
on Octree with Quadratic Approximation
Jiacheng Li, and Yue Chen

A Method for Surface Reconstruction from
Cloud Points Based on Segmented Support
Vector Machine
Lianwei Zhang, Yan Li, Meiping Shi, Jinze
Song, Xiaolin Liu, and Hangen He

An Evaluation Index Based on Parameter
Weight for Image Inpainting Quality
Song Wang, Hong Li, Xia Zhu, and Ping Li

ICYCS08 Session S1C2 (Room R5)
Data Structures and Algorithms II Chair:
Yaohui Li, Tianjin University of Technology
and Education, China

From Word Automata to Tree Automata
Chenguang Luo

Estimation of the k-Orientability Threshold
Ebrahim Malalla

Theoretical Research on Topological
Properties of Generalized K-Ary n-Cube
Interconnection Network
Bin Yao, Haisen Li, Tian Zhou, and Baowei
Chen

Comparative Research of XML Compression
Technologies
Sheng Zhang, Xiaoling Bao, Jian Shu, and
Sha Chen

Formal Analysis of Architectural Policies
of Self-Adaptive Software by Bigraph
Zhiming Chang, Xinjun Mao, and
Zhichang Qi

Modeling and Analyzing Time Constrains
for Service Composition
Guisheng Fan, Huiqun Yu, Dongmei Liu,
and Liqiong Chen

A Parameter Choosing Method of SVR for
Time Series Prediction
Shukuan Lin, Shaomin Zhang, Jianzhong
Qiao, Hualei Liu, and Ge Yu

Influence Graph Based Task Decomposition and State Abstraction in Reinforcement Learning

Lasheng Yu, Fei Hong, PengRen Wang, Yang Xu, and Yong Liu

ICYCS08 Session S5C2B (Room R6)
Application Programming Chair: Youngkon Lee, Korea Polytechnic University, Korea

A Fast Center of Mass Estimation Algorithm for Coordinates of IR Markers

Lingfei Zhang, Gang Chen, Dong Ye, and Rensheng Che

Decision Support in Procuring Requirements for ERP Software

Juntao Gao, Li Zhang, and Zhiyao Wang

Extended MRI-Cube Algorithm for Mining Multi-relational Patterns

Bao Liang, Xiaoguang Hong, Lei Zhang, and Shuai Li

An Efficient Primitive Subscription Matching Algorithm for RFID Applications
Fengliang Qi, Beihong Jin, Haibiao Chen, and Zhenyue Long

A Reflective Architecture-Aware Framework to Support Software Evolution

Haimei Zhang, Kerong Ben, and Zhixiang Zhang

A Scenrio-Based Problem Decomposition
Xiaohong Chen, and Zhi Jin

Refinement of UML Interaction for Correct Embedded System Design

Xiaojian Liu, Xuejun Liu, Jianxin Li, Yanzhi Zhao, and Zhixue Wang

A Multi-Agent System Frame Model for Dynamic Integration

Yingqiang Wang, Qingshan Li, Chenguang Zhao, and Hua Xing

ICYCS08 Session S7C2A (Room R7)
Network Security Chair: Nicolai Kuntze, Fraunhofer Institute for Secure Information Technology SIT, Germany

Collecting Internet Malware Based on Client-Side Honeypot

Xiaoyan Sun, Yang Wang, Jie Ren, Yuefei Zhu, and Shengli Liu

Modeling Cascading Failures in Congested Internet

Jian Wang, Yanheng Liu, Xin Sun, and Yu Jiao

An Adaptive Topology-Based Reputation Model for Unstructured P2P Networks

Jinsong Gui, and Xiaoheng Deng

Research on TCP Initial Sequence Number Prediction Method Based on Adding-Weight Chaotic Time Series

Fanping Zeng, Kaitao Yin, and Minghui Chen

A Reputation Evaluation Method in P2P Anonymous Environment

Jianquan Dong, Chao Tan, and Yunqi Zhang

Secure Relativistic Bit Commitment with Fixed Channel Capacity

Qin Li, Dongyang Long, and Changji Wang

A Novel Anonymous Communication

Strategy With Respect to Payment Mechanism
Yanhui Wu, Weiping Wang, and Jianer Chen

Enhanced Architecture of TPM
Fenghua Li, Wei Wang, Jianfeng Ma, and Zhenguo Ding

TrustCom08 Session T3B (Room R8)
Cryptography and Security Protocols
Chair: Ricardo Neisse, The University of Twente, The Netherlands

A CDH-Based Multi-signature Scheme with Tight Security Reduction
Zecheng Wang, Taozhi Si, Haifeng Qian, and Zhibin Li

Certificateless Concurrent Signature Scheme
Zhenjie Huang, Xuanzhi Lin, and Rufen Huang

Enforcement of Spatial Separation of Duty Constraint
Weihe Chen, Zhu Tang, and Shiguang Ju

Hierarchical Identity-Based Online/Offline Encryption
Zhongren Liu, Li Xu, Zhide Chen, Yi Mu, and Fuchun Guo

Performance Analysis of the HLLACF
Xin Chen, Huaping Hu, Bo Liu, Fengtao Xiao, and Zunguo Huang

Towards Trusted Broadcast Encryption
Emanuele Cesena, Gianluca Ramunno, and Davide Vernizzi

Deniable Proxy-Anonymous Signatures
Chengyu Fan, Shijie Zhou, and Fagen Li

IWCSEI08 Session E5 (Room R9)
Experimental Platform Chair: Qing Wu, Hangzhou Dianzi University, China

Teaching Plan for Assembly Language and Programming: Conditional Directives and Macro Directives
Jun Zhang, Fuxiang Gao, and Jian Wang

Breaking Boundaries among Hardware Curriculums by EDA Technology
Jiangbo Qian, Rangding Wang, Guang Jin, and Yuan Li

Research and Practice of Experimental Simulation Platform for Course of Digital Logic
Lijie Ren, Zhongwen Guo, Yongguo Jiang, and Hao Wu

Designing a Multi-Processor Education Board for High-Performance Embedded Processing
Yijun Liu, Banghai Wang, Guobo Xie, Pinghua Chen, and Zhenkun Li

Computer Ability Assisted Assessment System for Large-Scale Heterogeneous Distributed Environments
Qing Wu, Wen Ding, Weihua Hu, Bishui zhou, and Tianzhou Chen

Research of Automatic Question Answering System in Network Teaching
Jinzhong Xu, Keliang Jia, and Jibin Fu

A Novel Self-Studying Platform with its Application to Programming Courses

Yunfu Shen, Yue Wu, Mingjun Xin, and Yu Zheng

Image Encryption
Yongliang Xiao, and Limin Xia

An FPGA -Based Experiment Platform for Multi-Core System
Jianguo Xing, Wenmin Zhao, and Hua Hu

16:00 - 16:30 Coffee Break
16:30 - 18:30

IWCFTA08 Session F3 (Room R10)
Cryptography Chair: Zengqiang Chen, Nankai University, China

ICYCS08 Session S3C2B (Room R2)
Internet Technology Chair: Weirong Liu, Central South University, China

Cryptanalysis of a Chaos-Based Stream Cipher
Bin Zhang, and Chenhui Jin

An Efficient Ant Colony Optimization Algorithm for QoS Anycast Routing
Taoshen Li, Meng Xiao, Songqiao Chen, and Zhihui Ge

Application of Chaos in Digital Fountain Codes
Qian Zhou, and Zengqiang Chen

On QoS Anycast Routing Algorithm based on Particle Swarm Optimization
Taoshen Li, Ming Yang, Songqiao Chen, Zhigang Zhao, and Zhihui Ge

An Improved Image Encryption Algorithm Based on Chaos
Dongming Chen, Zhiliang Zhu, and Guangming Yang

WSDSNM3: A Web Services -Based Distributed System and Network Management Middleware Model and Scheme
Zhihui Lu, Yu Wu, Chuan Xiao, Shiyong Zhang, and Yiping Zhong

A Novel Binary Image Digital Watermarking Algorithm Based on DWT and Chaotic Encryption
Tiankai Sun, Xiaogen Shao, and Xingyuan Wang

A P2P Network Traffic Classification Method Using SVM
Aimin Yang, Shengyi Jiang, and He Deng

A Secure and Efficient Fingerprint Images Encryption Scheme
Song Zhao, Hengjian Li, and Xu Yan

Optimal Model of Service Discovery Architecture Based on IMS
Jie Zhang

A Strength Variable Encryption Algorithm for 2D Engineering Graphic Based on Discrete Cosine Descriptors and Chaos Scrambling
Fei Peng, Tao Deng, and Min Long

Towards a Self-Adaptive Super -Node P2P Overlay Based on Information Exchange
Jiaqi Liu, Zhigang Chen, Deng Li, and Hui Liu

A New Hyper -Chaotic Algorithm for

An Approach to Checking the Compatibility

for Web Services Specification Based on the Typed Graph Category
Xinlin Zhang, Huaikou Miao, and Shenghong Li

Symbol Time Error and Channel Estimation in Wireless OFDM LAN/MAN
Shengping Qin, Zhanlei Shang, Xin Zhang, Peide Liu, and Zheng Zhou

ICYCS08 Session S4C2B (Room R3)
Computer Graphics and Image Processing
Chair: Jicheng Ren, Beijing Zhongke Fulong Computer Technology Co., Ltd, China

On the Selection of Multi Optimal Imaging Frames in Single Time Slot for Earth Observation Satellite
Guomin Zhang, Jianping Yin, En Zhu, and Ling Mao

Quaternion Julia Fractals
Yan Xing, Jieqing Tan, and Peilin Hong

Main Feature Extraction and Expression for Religious Portrait Thangka Image
Jianjun Qian, and Weilan Wang

An Efficient Spectral Method for Document Cluster Ensemble
Sen Xu, Zhimao Lu, and Guochang Gu

A Method of Region-Based Calculating Image Similarity for RBIR System
Yongmei Zhou, Jinkuang Wang, and Aimin Yang

Multi-Source Color Transfer Based on Multi-Labeled Decision Tree
Yuejian Guo, Hong Li, Wei Zhang, and

Yao Xiang

A Novel Method for Image Spam Filtering
Hailing Huang, Weiqiang Guo, and Yu Zhang

Precise Depth Perception in Projective Stereoscopic Display
Liping Lin, Pingdong Wu, Jie Huang, and Jian Li

ICYCS08 Session S2C1 (Room R5)
Computer Systems Design Chair: Qiang Li, Beihang University, China

An Extensive Hardware/Software Co-Design on a Descriptor-Based Embedded Java Processor
Chi Hang Yau, Yi Yu Tan, Anthony Shi-Sheung Fong, and Pak Lun Mok

Transient Fault Recovery on Chip Multiprocessor Based on Dual Core Redundancy and Context Saving
Rui Gong, Kui Dai, and Zhiying Wang

Efficient Verification of Parameterized Cache Coherence Protocols
Wanxia Qu, Yang Guo, Zhengbin Pang, and Xiaodong Yang

A Double-Buffering Strategy for the SRF management in the Imagine Stream Processor
Yu Deng, Li Wang, Xiaobo Yan, and Xuejun Yang

Implementation and Evaluation of a Dynamic Schedule Policy for Multi-user Request in Network-Attached Disk Array
Jieqiong Li, and Dan Feng

A GPDMA -Based Distributed Shared I/O Solution for CC- NUMA System

Qiong Li, Zhengbin Pang, Yufeng Guo, Enqiang Zhou, and Xuejun Yang

FG-NC: A Schedule Algorithm of Designing Concurrent Multi-Direction Data Switch Structure

Jiaxin Li, Ning Deng, Caixia Liu, Mengxiao Liu, Zuo Wang, and Qi Zuo

DVMM: A Distributed VMM for Supporting Single System Image on Clusters

Jinbing Peng, Xiang Long, and Limin Xiao

ICYCS08 Session S5C3A (Room R6)
Software Engineering Chair: Xinjun Mao, National University of Defense Technology, China

The Consistency of Materialized View Maintenance and Drill -Down in a Warehousing Environment

Jinyu Chen, Ten Long, and Kangming Deng

A Role and Context Based Access Control Model with UML

Yubin Bao, Jie Song, Daling Wang, Derong Shen, and Ge Yu

New Coupling and Cohesion Metrics for Evaluation of Software Component Reusability

Gui Gui, and Paul D. Scott

Partheno -Genetic Algorithm for Test Instruction Generation

Zhong Ming, Xingan Jiang, and Jiancong Bai

An Experience -Based Approach for Test Execution Effort Estimation

Xiaochun Zhu, Bo Zhou, Li Hou, Junbo Chen, and Lu Chen

A Model of Third-party Integration Testing Process for Foundation Software Platform

Jing Gao, Yuqing Lan, and Maozhong Jin

A Markov Decision Approach to Optimize Testing Profile in Software Testing

Deping Zhang, Changhai Nie, and Baowen Xu

ICYCS08 Session S7C2B (Room R7)
Network Security Chair: Hongli Zhang, Harbin Institute of Technology, China

Network Security Evaluation Algorithm Based on Access Level Vectors

Kai Li, Naijie Gu, Kun Bi, and Hongzhu Ji

Enforcing Separation of Duty in Ad Hoc Collaboration

Lingli Deng, Yeping He, and Ziyao Xu

P2P Anti -worm: Modeling and Analysis of a New Worm Counter -measurement Strategy

Bin Wang, Piao Ding, and Jinfang Sheng

An Hybrid Vulnerability Analysis Method angaist Non -Security Protocols

Yanmei Zhang, and Jianming Zhu

Counter - Attack Trust Model Based on Vague Set for P2P Networks

Xuri Chen, and Weimin Xu

A Method Based on AMHI for DDoS

Attacks Detection and Defense

Kai Bu, and Zhixin Sun

An Enhanced Authentication and Key Agreement Mechanism for SIP Using Certificateless Public-key Cryptography

Ming Luo, Yingyou Wen, and Hong Zhao

Privacy Guaranteed Mutual Authentication on EPCglobal Class 1 Gen 2 Scheme

Jiahao Wang, Terry Ye, and Edward C. Wong

TrustCom08 Session T4B (Room R8) Reliable, Survivable and Fault-Tolerant Computer Systems/Networks Chair: Sancheng Peng, Central South University, China

An Enhanced Factoring Algorithm for Reliability Evaluation of Wireless Sensor Networks

Yufeng Xiao, Shanzhi Chen, Xin Li, and Yuhong Li

A Deployable Architecture Against Application-level DDoS Attacks

Xiaolin Chen, Hui Deng, Feng Wang, Mu Mu, and Sanglu Lu

Fault-Tolerant Scheduling for Periodic Tasks based on DVFS

Ping Zhu, Fumin Yang, Gang Tu, and Wei Luo

A Defending Mechanism against DDoS Based on Registration and Authentication
Wei Zhang, Shize Guo, Kangfeng Zheng, and Yixian Yang

Two Stochastic Models for Security

Evaluation Based on Attack Graph

Yinqian Zhang, Xun Fan, Zhi Xue, and Hao Xu

Strategies on Algebraic Attacks Using SAT Solvers

Baiqiang Chen

IWCSEI08 Session E6 (Room R9)

Experiment Design Chair: Shuoping Wang, Zhejiang University City College, China

Research on Curriculum Design of "Real-Time Analysis and Design" Based on Multi-Core Platform

Zhongwen Li, and Wuling Lv

Question Answering System in Network Education Based on FAQ

Keliang Jia, Xiuling Pang, and Zhinuo Li

Research on Networking Laboratory Design and Training

Fei Hong, and Yu Bai

Design of an Expandable Website Platform for Quality Course Cluster

Shuoping Wang, Gaoyan Zhang, and Jun Liu

Experimental Design of Applying Intelligent Computation to NIR Spectral Data Mining

Haiqing Yang, and Yong He

Research on Experimental Platform and Methods for the Course "Interface and Communication"

Jianwen Feng, Guojun Dai, Peng Liu, and Xingfa Shen

Experiences of Simulation Training with Computer Technology in Police College
Shulong Li

The Practice of Remote Education on Information Security
Wei Hu, Gang Wang, Qingsong Shi, and Tianzhou Chen

IWCFTA08 Session F4 (Room R10)
Chaotic Dynamics, Control and Optimization
Chair: Qun Ding, Heilongjiang University, China

The Scroll Control of a New Chaotic System
Chunbiao Li, and Hankang Wang

Study on the Chaotic Wave
Hong Chen, Qun Ding, and Jing Pang

Study on the Nonlinear Dynamic Characteristic of Cone Penetrate Test Curve
Jiangdong Cai, Daoming Zhang, and Zhenquan Jiang

Research on Optimal Control of Vehicle Vibration Based on Semi-Active Suspension System
Jia Xu, Hongli Wang, Zhiwen Zhu, and Gen Ge

Generating Multi-Wing Butterfly Attractors from the Piecewise-Linear Chen System
Chaoxia Zhang, Simin Yu, Jinhua Lv, and Guanrong Chen

Application of Local Activity Theory to Rossler CNN Model
Yan Meng, Lequan Min, and Yu Ji

Targets Assignment for Cooperative Multi-UAVs Based on Chaos Optimization Algorithm
Wei Ou, Fengxing Zou, Xiaohong Xu, and Zheng Gao

Friday, November 21, 2008

8:00 - 10:00

ICYCS08 Session S3C3A (Room R2)
Wireless Networks Chair: Panlong Yang, Nanjing University, China

SBCA: Score Based Clustering Algorithm for Mobile Ad-Hoc
Sahar Adabi, Sam Jabbehdari, Amir Masoud Rahmani, and Sepideh Adabi

Quantitative Evaluation Model for Survivability in Large-Scale MANETs Based on Reliability Theory
Sancheng Peng, Weijia Jia, and Guojun Wang

Research on Service-Oriented Lifetime and Network Density in WSN
Dayang Sun, Yanheng Liu, Aimin Wang, and Bin Ge

Load Balancing Placement of Gateways in Wireless Mesh Networks with QoS Constraints
Feng Zeng, and Zhigang Chen

Fast cash: Fair and Stable Channel Assignment on Heterogeneous Wireless Mesh Network
Panlong Yang, and Guihai Chen

A Broadcasting Retransmission Approach

Based on Random Linear Network Coding
Xiao Xiao, Luming Yang, Weiping Wang,
and Shuai Zhang

An Energy-Aware Coverage Based Node
Scheduling Scheme for Wireless Sensor
Networks

Jinxia Liu, Naijie Gu, and Songsong He

An Algorithm for Target Localization in
Sensor Networks Based on Overlap Area
Boundary of Sensor Detection

Quanlong Li, Luo Yu, Xiaofei Xu, and
Zhijia Zhao

ICYCS08 Session S4C3 (Room R3)
Computer Application Model and
Development Chair: Jianyu Xiao, Central
South University, China

Role-Oriented Workflow Modeling Based
on Object Petri Net

Zhijiao Xiao, Zhong Ming, and Jianfei Yin

Explicit Model Checking Based on Integer
Pointer and Fibonacci Hash

WanXia Qu, Tun Li, Yang Guo, and
XiaoDong Yang

Research on Web Services Maiden Business
Trust Metrics, Appraisal and Filtration
Model

Lei Jiang, and Jianxun Liu

Conditional Delegation Model Based on
Weighted Roles for Workflow

Jian Zhang, Niya Li, Di Luo, Lili He, and
Chengquan Hu

An Effective Approach for Multi-rectangle
Detection

Yueping He, and Ziqiang Li

Research on Motion Vector Accuracy in
Overcomplete Wavelet-Domain Scalable
Video Coding Based on Human Visual
System

Characteristics

Chuanming Song, Xianghai Wang, and
Fuyan Zhang

A Real-time Parallel Catmull-Clark
Subdivision Algorithm on GPU

Jingqiao Zhang, and Zhuoer Ji

A Spreadsheet-like Construct for
Streamlining and Reusing Mashups

Guiling Wang, Shaohua Yang, and Yanbo
Han

ICYCS08 Session S2C2 (Room R5)
Computer Systems Performance Evaluation

Chair: Weiqin Tong, Shanghai University,
China

Performance Estimation: IPC

Abhijit Ray, Jigang Wu, and Thambipillai
Srikanthan

Evaluating the Data Access Efficiency of
Imagine Stream Processor with Scientific
Applications

Yonggang Che

Low-Level Component for OpenGL ES
Oriented Heterogeneous Architecture with
Optimization

Xinbiao Gan, Kui Dai, and Zhiying Wang

A Fast Implementation of Computing the
Transparency Order of S-Boxes

Limin Fan, Yonbin Zhou, and Dengguo Feng

Performance Bound Analysis and Retiming of Timed Circuits

Lei Wang, Zhiying Wang, and Kui Dai

Intrusion Detection for Object-Based Storage System

Di Yao, and Dan Feng

Autonomic Grid Node Organization and Management in RNMS

Yuanzhe Yao, Binxing Fang, Xinran Liu, and Hong Zhang

Design and Implementation of an Integrity Measurement System Based on Windows Trusted Computing Platform

Yang Yang, Huanguo Zhang, Li Wan, and Bingyu Zou

ICYCS08 Session S5C3B (Room R6)

Software Engineering Chair: Jianfei Yin, Shenzhen University, China

A New Method for Test Suite Reduction

Rui Zhang, Jianhui Jiang, Jie Yin, Ang Jin, Jungang Lou, and Ying Wu

Using Stakeholder Analysis for Improving Statechart Merging in Software Requirement Management

Jun Cheng, and Qiang Liu

Design and Implementation of a Data Stream Load Shedding Model

Dan Wang, and Maozeng Li

Web Service Discovery Based on Semantic Matchmaking with UDDI

Tian Qiu, and Pengfei Li

Polymorphism Sequence Diagrams Test

Data Automatic Generation Based on OCL

Hang Zhou, Zhiqiu Huang, and Yi Zhu

Mining Open Source Component Behavior and Performance for Reuse Evaluation

Ji Wu, Yongpo Liu, Xiaoxia Jia, and Chao Liu

Evaluating COTS Components Using Gap Analysis

Jinfang Sheng, and Bin Wang

A Lightweight Snapshot-based Algorithm for Software Transactional Memory

Xiaoqiang Zhang, Lin Peng, and Lunguo Xie

ICYCS08 Session S7C3 (Room R7)

Cryptography Chair: Yueming Deng, Central South University, China

Generic Construction of Certification-Based Encryption

Yang Lu, Jiguo Li, and Junmo Xiao

Mixed Image Element Encryption System

Guiliang Zhu, and Xiaoqiang Zhang

Encryption Scheme for Remote Sensing Images Based on EZW and Chaos

Lijie Yin, Jinhui Zhao, and Yan Duan

Hierarchical Data Processing Model and Complete Tree Key Management Mechanism

Jian Xu, Fucai Zhou, Xinyang Li, and Muzhou Yang

Identity-Based Broadcast Encryption

Scheme with Untrusted PKG
Shanqing Guo, and Chunhua Zhang

An Identity-Based Broadcast Encryption
Protocol for Ad Hoc Networks
Leyou Zhang, Yupu Hu, and Ningbo Mu

TrustCom08 Session T5A (Room R8)
Access Control and Authentication in
Computer Systems/Networks Chair: Helen
Tang, Defence Research & Development
Canada -Ottawa, Canada

ECL: A TLS Extension for Authentication
in Complex PKIs
Paul Rabinovich

A Secure Network Admission and Routing
Model Based on Trust Theory
Chi Guo, Lei Zhao, Li-Na Wang, and
Zhejun Fang

An Enhancement of Trusted Domain
Enforcement Using VMM Interruption
Mechanism
Ruo Ando, Youki Kadobayashi, and Yoichi
Shinoda

A User Trustworthiness Based Lightweight
Access Control
Rui Zhu, Changguo Guo, Huaimin Wang,
and Hailin Gong

Cryptanalysis of Two Improved Remote
User Authentication Schemes Preserving
User Anonymity
Seil Kim, Ji Young Chun, and Dong Hoon
Lee

TNC-UTM: A Holistic Solution to Secure
Enterprise Networks

Fachao Deng, Anan Luo, Yaokun Zhang,
Zhen Chen, Xuehai Peng, Xin Jiang, and
Dongsheng Peng

A New Biometric Identity Based Encryption
Scheme
Neyire Deniz Sarier

IWCSEI08 Session E7 (Room R9)
Teaching Exploration Chair: Wenxiang
Zhang, Zhejiang Wanli University, China

Content-Based School Assignment Cluster
Algorithm
Juan Feng, Jie Zhao, and Guohua Zhan

The Exploration and Practice of Embedded
System Curriculum in Computer Science
Field
Zhenkuan Pan, and Yanbin Fan

Integrated Application of Project Cases in
Programming Course
Rongchun Chen, and Lixin Xue

Application of the Attribution Theory in
Improving Computer Study Effects of
University Students
Qiaoming Pan, Yongqiang Zhu, and Wei
Zhu

The Practice Training in the Software
Engineering Education
Ping Huang, Mingrui Chen, and Shaofan
Chen

Research on Construction Mode of Using
Internet to Boost Language C
Wenxiang Zhang, Siyou Xiao, Xiaoyong
Wang, and Xuping Zhu

Domain Ontology Learning for Question Answering System in Network Education
Jibin Fu, Keliang Jia, and Jinzhong Xu

Application of Project-Based Cooperative Learning in Computer Education
Hai Wang, Lihe Hu, Yunhe Lu, and Po Hu

IWCFTA08 Session F5 (Room R10)
Chaos-Fractals Theories Chair: Lidong Wang, Dalian Nationalities University, China

Forward Displacement Analysis of the 4SPS-2CCS Generalized Stewart Platform Based on Hyper-Chaotic Neural Network

Mathematical Programming Method
Youxin Luo, Xiguang Huang, and Bin Zeng

Topological Entropy and Complexity of One Class of Cellular Automata Rules
Fangfang Chen, Fangyue Chen, Weifeng Jin, and Lin Chen

Complex Symbolic Dynamics of Bernoulli Shift Cellular Automata Rule
Lin Chen, Fangyue Chen, Fangfang Chen, and Weifeng Jin

On Definitions of Chaos in Discrete Dynamical System
Lidong Wang, Xiuying Xing, and Zhenyan Chu

Hausdorff Dimension of a Class of Self-affine Fractals Generated by Linear Fibre Coding
Yongxin Gui, and Zhiming Zhou

Numeration and Comparison of Two Kinds of Lyapunov Dimensions in Autonomous Chaotic Flows

Yandong Chu, Xianfeng Li, Jiangang Zhang, and Yingxiang Chang

A New Method to Estimate Additive Noise in Synchronized Oscillations

Nan Yang, Zhangcai Long, and Xianghui Zhao

Chaos Study of the Lamprey Neural System via Improved Small Dataset Method

Yunlong Li, and Pingjian Zhang

10:00 - 10:30 Coffee Break

10:30 - 12:30

ICYCS08 Session S3C3B (Room R2)
Wireless Networks Chair: Wenying Zeng, South China University of Technology, China

Research on Energy Hole Problem for Wireless Sensor Networks Based on Alternation between Dormancy and Work
Anfeng Liu, Xianyou Wu, and Weihua Gui

A RIO Approach for Modeling Wireless Sensor Network

Ye Yao, Vincent Hilaire, Abder Koukam, and Wandong Cai

Semi-Supervised Top-k Query in Wireless Sensor Networks

Hailan Shen, Deng Li, Pengfei Xu, and Zailiang Chen

Towards End-to-end Delay Bounds on WMNs Based on Statistical Network

Calculus

Huamei Qi, Zhigang Chen, and Lianming Zhang

A Novel Approach to Mobile Positioning Tracking

Wensheng Tang, Wangqiu Kuang, and Dingxing Zhang

An Effective Approach for Continuous Window Query in Wireless Sensor Networks

Baoyan Song, Yanyan Cong, Jiayang Zhang, Xiaoguang Li, and Ge Yu

A Distributed Power Proportional Clustering Algorithm to Improve Energy Efficiency for Wireless Sensor Networks

Tengfei Zhu, Jun Peng, Ying Guo, Xiaoyong Zhang, Fu Jiang, and Chunming Li

A Dynamic Spatial Backoff Algorithm Based on Channel Rate and Transmit Power in Wireless Networks

Zhuonong Xu, Jianxin Wang, and Yanrong Su

ICYCS08 Session S4C4A (Room R3)

Computer - Aided Design Chair: Dong Xiang, Tsinghua University, China

A New Method for Camera Motion Estimation in Video

Lin Liu

A Shape Distributions Retrieval Algorithm of 3D CAD Models Based on Normal Direction

Hongshen Wang, Shusheng Zhang, Kaixing Zhang, and Xiaoliang Bai

LAD: Layered Adaptive Data Integration Architecture

Xin Sun, Derong Shen, Zhenhua Wang, Yue Kou, Tiezheng Nie, and Ge Yu

ECG De-Noising Based On Empirical Mode Decomposition

Guodong Tang, and Aina Qin

Reconstruction of the Visual Hull with Modified Ray-Tracing and Fast Slice-Based Surface Extraction

Jie Zhou, Hai Chen, and Yue Chen

Automatic Recognition System for Numeric Characters on Ammeter Dial Plate

Yibo Li, and Hongjuan Qian

FRASCS: A Framework Supporting Context Sharing

Taizong Lai, Wenjun Li, Hui Liang, and Xiaocong Zhou

Generation of Three-Dimensional Finite Element Mesh from CT Dataset of Human Femurs

Xin Chen, and Yueshan Xiong

ICYCS08 Session S8C1 (Room R5)

Artificial Intelligence Basics and Semantic Web Chair: Bofeng Zhang, Shanghai University, China

Attribute Reduction Algorithm Research Based on Rough Core and Back Elimination

Guojun Zhang, Enmin Song, Guangzhi Ma, and Wei Zhang

A Vector Matrix Iterative Self-Organizing Assistant Clustering Algorithm of XML Document

Bo Liu, Luming Yang, and Yunlong Deng

Stability Analysis of Large-Scale Time-Delay Fuzzy Systems with Hybrid Models
Degang Xu, and Zhifang Su

Real-Parameter Optimization with Modified Differential Evolution
Xiaoqing Chen, Zhongxi Hou, and Jianxia Liu

Efficient Type Checking for A Subclass of Regular Expression Types
Lei Chen, and Haiming Chen

A Hybrid Model for Distributed Semantic Queries
Yinglong Ma, Beihong Jin, and Shipeng Zhang

Research of the INS/GPS Integrated Navigation System for High Speed Trains
Haitao Zhang, Jian Rong, and Xiaochun Zhong

Information Flow Detection and Tracking on Web2.0 BLOGS Based on Social Networks
Jintao Tang, Ting Wang, and Ji Wang

ICYCS08 Session S6C1 (Room R6)
Computer Processor and Peripheral Technology Chair: Jinfang Sheng, Central South University, China

Mitigating Soft Errors in System-on-Chip Design
Hai Yu, and Xiaoya Fan

Sound-Specific Vibration Interface: Its Performance of Tactile Effects and

Applications

Yonghee You, Hwanmun Lee, Mee Young Sung, Kyungkoo Jun, and Jin-Suk Kang

New Approach for Embedded Computer Numeric Control Development
Jianhua Zheng, Di Li, Zhaogan Shu, and Rong Zhu

A Particle Filtering For 3D Human Hand Tracking
Zhiquan Feng, Bo Yang, Yuehui Chen, Yan Jiang, Tao Xu, and Haokui Tang

A Web Performance Modeling Process Based on the Methodology of Learning from Data
Jianfei Yin, Zhong Ming, Zhijiao Xiao, and Hui Wang

A Novel Hardware Assisted Full Virtualization Technique
Wei Chen, Hongyi Lu, Li Shen, Zhiying Wang, Nong Xiao, and Dan Chen

Design and Implementation of an Integrated Fault-Supervising System for Large HPCs
Chunsheng Qi, Xiao Zheng, Biying Kuang, and Wei Zhou

Formal verification of Bypassed Processor Pipelines
Yanyan Gao, and Xi Li

ICYCS08 Session S8C2 (Room R7)
Natural Language Processing and Logic Reasoning Chair: Kerong Ben, Naval University of Engineering, China

DSmT Qualitative Reasoning Based on

2-Tuple Linguistic Representation Model
Xinde Li, Xianzhong Dai, Jean Dezert, and
Florentin Smarandache

Research on Query Translation Disambiguation
for CLIR Based on HowNet
Honglei Zhu, Dequan Zheng, and Tiejun
Zhao

Extending BLEU Evaluation Method with
Linguistic Weight
Muyun Yang, Junguo Zhu, Jufeng Li,
Lixin Wang, Haoliang Qi, Sheng Li, and
Liu Daxin

Measure Semantic Similarity between
English Word
Jinwu Hu, Liuling Dai, and Bin Liu

A Case Study on Chinese Text Information
Filtering Method Based on User Ontology
Model
Bofeng Zhang, Jianguo Pan, Jianbo Hu,
Zhongyuan Liu, and Ruimin Zhang

An Optimization Algorithm of Vehicle
License Plate Correction Based on
Minimum Projection Distance
Mei Wang, and Guohong Wang

Application and Contrast in Brain-
Computer Interface between Hilbert-
Huang Transform and Wavelet Transform
Manling Huang, Pingdong Wu, Ying Liu,
Luzheng Bi, and Hongwei Chen

BALC: A Belief Extension of Description
Logic ALC
Shubin Cai, Zhong Ming, and Shixian Li

TrustCom08 Session T6A (Room R8)

Trusted Computing Platform and Trusted
Software Chair: Ruo Ando, National Institute
of Information and Communication
Technology, Japan

Formal Analysis of a TPM-Based Secrets
Distribution and Storage Scheme
Ronald Toegl, Georg Hofferek, Karin
Greimel, Adrian Leung, Raphael C-W.
Phan, and Roderick Bloem

Implementation of Pointer Logic for
Automated Verification
Zhifang Wang, Yiyun Chen, Zhenming
Wang, Wei Wang, and Bo Tian

Design of Some Artificial Immune Operators
in Software Test Cases Generation
Junmin Ye, Zemei Zhan, Zhenfang Zhang,
Wei Dong, and Zhichang Qi

A New Direct Anonymous Attestation from
Bilinear Maps
Xiaofeng Chen, and Dengguo Feng

An Easy-to-Deploy Penetration Testing
Platform
Bing Duan, Yinqian Zhang, and Dawu Gu

Fingerprinting Executable Programs Based
on Color Moments of a Novel Abstract Call
Graph
Zhiyi Yin, Jianming Fu, Fuxi Zhu,
Fanchen Su, Haitao Yao, and Fen Liu

A Method to Generate Embedded Real-
Time System Test Suites Based on Software
Architecture Specifications
Junmin Ye, Wei Dong, and Zhichang Qi

IWCSEI08 Session E8 (Room R9)
Teaching Experiences Chair: Lingzhi Li,
Central South University, China

Research and Practice in Undergraduate
Embedded System Course
Xiumin Shi, Ji Zhang, and Yanbing Ju

Exploration of Curriculum Structures
and Educational Models of Database
Applications
Rongliang Luo, Minghui Wu, Yong Zhu,
and Yunru Shen

Dynamic Demo System of Data Structure
with C++ MFC
Zhi Liu, Jian Lu, and Xiaochun Dai

Investigating on the Curriculum Visions of
Computing Disciplines
Long Hong, Yanli Chen, Ningning Zhou,
and Fangwu Yao

University-Industry Collaboration for
Software Engineering Teaching
Weidong Zhao, and Anhua Wang

Experiences in Software Testing Education:
Some Observations from an International
Cooperation
Joseph Timoney, Stephen Brown, and
Deshi Ye

Analysis of a C Language Teaching
Example Based on the ARCS Model: The
Basic Concept and Use of Structure
Min Lu, and Xiaoyu Jin

Exploration and Practice on Teaching Java
as Introductory Language for Non-CSE
Major Students

Jianping Han, Weihua Hu, and Xiaoqing
Feng

IWCFTA08 Session F6 (Room R10)
Chaos Synchronization Chair: Xiaofeng
Liao, Chongqing University, China

A Note on Chaos Synchronization of
Generalized Lorenz Systems
Yun Chen, Guanrong Chen, and Xiaofeng
Wu

Modified Projective Synchronization
among Three Modified Chen Chaotic
Systems with Uncoupled Response System
Yuhua Xu, Wuneng Zhou, Lebin Deng,
and Hongqian Lu

Generalized Cascade Synchronization of
Discrete-time H'eron-like Map
Yin Li, Biao Li, and Yong Chen

Experimental Investigation on Impulsive
Synchronization of Chaotic PN Sequences
Based on FPGA
Xulei Bao, Guangyi Wang, Cuiping Wang,
and Wei Feng

Synchronization of Rikitake Chaotic
Attractor via Partial System States
Jigui Jian, Yanjun Shen, and Hui Yu

Improved Full State Hybrid Projective
Synchronization of Chaotic Systems with
the Different Order
Jianning Yu, Jiangang Zhang, and Li
Zhang

Anticipating Synchronization of Chaotic
Systems with Parameter Mismatch
Qi Han, Chuandong Li, Junjian Huang,

Xiaofeng Liao, and Tingwen Huang

Chaos and Synchronization of Time-Delayed Fractional Neuron Network System

Hao Zhu, Shangbo Zhou, and Weiwei Zhang

12:30-14:00 Lunch

14:00-16:00

ICYCS08 Session S3C3C (Room R2)

Wireless Networks Chair: Yanxiang He, Wuhan University, China

A Deployment Algorithm to Achieve both Connectivity and Coverage in Grid Sensor Networks

Diwen Wu, Dongqing Xie, and Lupeng Wang

Multipath-Based Segment-by-Segment Routing Protocol in MANETs

Yuan Lu, Guojun Wang, Weijia Jia, and Sancheng Peng

A Location Based Execution Path Selection Approach for Composite Service in MANETs

Weiyu Chen, Jingjing Wu, Weiwei Sun, and Zhenying He

A Lifetime Aware Approach to Service Selection in Mobile Ad Hoc Networks

Zhuoyao Zhang, Weiwei Sun, Weiyu Chen, and Jiaqi Dong

A Novel Link-Segment Storage and Query Scheme for Object Tracking Applications in Wireless Sensor Networks

Jin Zheng, Weijia Jia, and Guojun Wang

A Low Overhead Truthful Energy-Efficient Routing Protocol in Wireless Mobile Ad hoc Networks with Selfish Nodes

Xinhui Yuan, Songqiao Chen, and Xinhua Jiang

A Multipath on-Demand Routing with Path Selection Entropy for Ad Hoc Networks

Baolin Sun, Chao Gui, Qifei Zhang, Bing Yan, and Wei Liu

Performance Investigation of Backoff Algorithms in Multihop Wireless Networks

Jian Li, Xianwen Zeng, and Qinggang Su

ICYCS08 Session S4C4B (Room R3)

Computer-Aided Design Chair: Bin Wang, Central South University, China

OOV Translation Mining from Mixed-Language Snippets from a Search Engine

Yunqian Qu, Jianmin Yao, Jun Sun, and Meng Sun

A Hybrid Algorithm for Solving the Optimal Layout Problem of Rectangular Pieces

Xingbo Jiang, Xiaoqing Lu, Chengcheng Liu, and Monan Li

A Robust Endpoint Detection Algorithm for Video Caption Generation

Qi Li, Huadong Ma, and Shuo Feng

HJ-hPI: Hierarchical Mixed-Size Placement Algorithm with Priori Wirelength Estimation

Jie Hao, and Silong Peng

Wrapper Feature Selection Optimized SVM Model for Demand Forecasting
Yue Liu, Yafeng Yin, Junjun Gao, and Chongli Tan

Design and Implementation of Open Source Based Digital Preservation Experimental Platform (THDP)
Ningning Ma, Chao Li, Airong Jiang, and Chunxiao Xing

A Design of Data Rebuilding for Decision Support in E-Government Systems
Gang Chen

Semantic-Aware Access Control for Grid Application
Xiyuan Chen, Yang Ouyang, Miaoliang Zhu, and Yan He

ICYCS08 Session S8C3A (Room R5)
Neural Networks, Pattern Recognition, and Machine Learning Chair: Yubin Bao, Northeastern University, China

Learning TSK Fuzzy Model by GA-BP Method
Jiancheng Liu, Xinhua Jiang, and Baohua Lan

Real-time Robust Algorithm for Circle Object Detection
Jianping Wu, Jinxiang Li, Changshui xiao, Fangyong Tan, and Caidong Gu

Real-time Detection of Dynamic Obstacle Using Laser Radar
Baifan Chen, Zixing Cai, Zheng Xiao, and Jinxia Yu

An Approach to Cooperative Multi-robot

Map Building in Complex Environments
Wei Pan, Zixing Cai, Limei Liu, and Baifan Chen

A Map Building Method Based on Uncertain Information of Sonar Sensor
Limei Liu, Zixing Cai, Wei pan, Baifan chen, and Lijue Liu

Tablets Vision Inspection Approach Using Fourier Descriptors and Support Vector Machines
Peng Zhao, and Shutao Li

Tuning of the Structure and Parameters of a Neural Network Using a Good Points Set Evolutionary Strategy
Chixin Xiao, Zixing Cai, Yong Wang, and Xingbao Liu

ICYCS08 Session S6C2A (Room R6)
Computer Storage Technology Chair: Dan Feng, Huazhong University of Science and Technology, China

iAIM: An Intelligent Autonomous Instruction Memory with Branch Handling Capability
Hui-chin Yang, Liming Wang, and Chung-Ping Chung

Lowering the Overhead of Hybrid Transactional Memory with Transact Cache
Shaogang Wang, Dan Wu, Zhengbin Pang, WenSheng Tang, and Xiaodong Yang

HHMA: A Hierarchical Hybrid Memory Architecture Sharing Multi-Port Memory
Caixia Liu, Jiaxin Li, Hongli Zhang, and Qi Zuo

Design and Evaluation of Optical Bus in

High Performance Computer
Lei Li, Zheng Cao, Mingyu Chen, and
Jianping Fan

Journal -based Block Images for Flash
Memory Storage Systems
Lei Jiao, Yanyuan Zhang, and Wei Lin

Design and Implementation of Compression
Algorithm Comparator for Digital Image
Processing Based on Component
Yu Sheng, and Weiping Wang

The Design and Implementation of a High
Performance and High Flexibility Memory
Interface Architecture for Embedded

Application
Hualong Zhao, Hongshi Sang, and Tianxu
Zhang

Hierarchical Storage System Based on
Wireless Mesh Network
Wenyong Zeng, Yuelong Zhao, and Junwei
Zeng

ICYCS08 Session S8C4A (Room R7)
Genetic Algorithm, Data - Mining, and
Clustering Chair: Jianmin Yao, Suzhou
University, China

A Novel Simplex Hybrid Genetic Algorithm
Hongfeng Xiao, and Guanzheng Tan

Particle Clonal Genetic Algorithm Using
Sequence Coding for Solving Distribution
Network Reconfiguration
Yemei Qin, Ji Wang, and Weihua Gui

An Improved Genetic Algorithm Based On
Variable Step -Size Search

Guannan Zhu, Ning Xu, Zhulin An, and
Yongjun Xu

Hybrid Algorithm Combining Ant Colony
Algorithm with Genetic Algorithm for
Continuous Domain
Bo Liu, and Peisheng Meng

A Parameter -Free Clustering Algorithm
Based on Density Model
Jun Mu, Hongxiao Fei, and Xin Dong

An Extended Grid -Based Clustering
Algorithm with Referential Value of
Parameters
Xingdong Yi, Yantao Zhou, and Zhengguo
Wu

A Clustering Algorithm for Mixed Data
Based on Lattice Theory
Zhifang Liao, Xiaoping Fan, Yun Zhou,
and Kezhun Liu

Parallel Job Scheduling with Time -varying
Constraints for Heterogeneous Multiple -
Cluster Systems
Weizhe Zhang, Hongli Zhang, Xinran Liu,
and Xuemai Gu

TrustCom08 Session T5B (Room R8)
Access Control and Authentication in
Computer Systems/Networks Chair:
Jianping Li, University of Electronic
Science and Technology of China, China

Service Authenticity in P2P File -Sharing
Lingli Deng, Yeping He, and Ziyao Xu

Building an Independent Integrated
Authentication Service
Zhexuan Song, Seigo Kotani, and Ryusuke

Masuoka

A New Wireless Mesh Network Authentication Scheme Based on Threshold Method

Yatao Yang, Yonghao Gu, Xi Tan, and Lina Ma

Lightweight Integrated Authentication for Tactical MANETs

Helen Tang, and Mazda Salmanian

A Scheme of Test Pattern Generation Based on Reseeding of Segment-Fixing Counter

Tian Chen, Huaguo Liang, Minsheng Zhang, and Wei Wang

A BLP-based Access Control Mechanism for the Virtual Machine System

Chuliang Weng, Yuan Luo, Minglu Li, and Xinda Lu

Dynamic Trustiness Authentication Framework Based on Software's Behavior Integrity

Guojun Peng, Xuanchen Pan, Huanguo Zhang, and Jianming Fu

IWCFTA08 Session F7 (Room R9)

Fractal- Methods Based on Image Processing Chair: Wang Yan, Shenyang Ligong University, China

A Block Location Scrambling Algorithm of Digital Image Based on Arnold Transformation

Zhenwei Shang, Honge Ren, and Jian Zhang

Application of Image Recognition Technology Based on Fractal Dimension for Diesel

Engine Fault Diagnosis

Yanping Cai, Shu Cheng, Yanping He, and Ping Xu

Fractal Image Compression Based on Numbers of Hopping and Variance of Continuing Positive and Negative Pixels

Zhen Qin, Hai Yu, and Jinling Ju

Medical Image Retrieval Based on Fractal Dimension

Jianhua Wu, Chunhua Jiang, and Liqiang Yao

Golden Section in 3D Plants IFS Reconstruction

Yan Wang, Lanling Zeng, and Yan Qi

Research of Plant Growth Model Based on the Combination of L -System and Sketch

Bowen Sun, Litao Jiang, Boling Sun, and Shengtao Jiang

Video Image Targets Detection Based on the Largest Lyapunov Exponent

Shaoqing Yang, Sihua He, and Hongwen Lin

Facial Affection Recognition Algorithm Based on Gabor Wavelet Transformation and Fractal Dimension

Jixiang Ye, and Guanzheng Tan

IWCFTA08 Session F8 (Room R10)

Fractal Market Theory Chair: Zhong Liu, Nanjing University of Science and Technology, China

An Unsymmetrical Hyperchaotic Attractor

Bocheng Bao, Zhong Liu, Zhusheng Kang,

Jianping Xu, and Xiaohua Qiao

Delay Adjusted Noise Effect in Coupled Nonlinear Chemical System
Lin Ji, Xiufeng Lang, and Guowei Deng

A New Method of Financial Risk Management Based on Multifractal
Shuang Ma, and Aiping Jiang

Subprime Mortgage Crisis Detection in U.S. Foreign Exchange Market by Multifractal Analysis
Junjun Tang, Jing Wang, Cheng Huang, Guolun Wang, and Xiong Wang

Research on Chinese Economic Effect of Central Bank Raising Interest Rates Based on System Dynamics
Huanmei Qin

On the Chaotic Dynamics Analysis of China Stock Market
Liangsheng Chen

A Novel Image Encryption Algorithm Based on Improved 3D Chaotic Cat Map
Hongjuan Liu, Zhiliang Zhu, Huiyan Jiang, and Beilei Wang

16:00 - 16:30 Coffee Break

16:30 - 18:30

ICYCS08 Session S3C3D (Room R2)
Wireless Networks Chair: Shanqing Guo, Shandong University, China

A Highly Efficient DAG Task Scheduling Algorithm for Wireless Sensor Networks
Zhiwen Zeng, Anfeng Liu, Deng Li, and Jun Long

A Self-Adaptive Service Discovery Approach in Mobile Ad Hoc Networks
Bo Peng, Weiwei Sun, Jiaqi Dong, and Ping Yu

A Dynamic Time Synchronization Scheme for Multihop Sensor Networks
Wei Dong, Chun Chen, Jiajun Bu, Kougen Zheng, Xiaofan Wu, and Guodong Teng

An Optimal Local Reputation System in Mobile Ad Hoc Networks
Changgeng Tan, Songqiao Chen, and Wenyan Luo

An Improved Scheme for Reducing the Latency of AODV in Mobile Ad Hoc Networks
Ronghua Shi, and Yongyan Deng

EMDF - A Broadcast Scheduling Policy for Wireless Multi-hop Networks with Interference Constraint
Luobei Kuang, Ming Xu, and Wei Yu

Research and Improvement on Expected Throughput Metric in Wireless Mesh Network
Xiaoli Xiao, Min Huang, and Weiping Zhang

Preemptive Scheduling for Multi-Item Queries in On-Demand Data Broadcast
Zhouyao Zhang, Weiwei Sun, Ping Yu, and Yongrui Qin

ICYCS08 Session S4C5 (Room R3)
Bioinformatics Chair: Zuping Zhang, Central South University, China

A Novel Approach for Classifying Human

Cancers

Shuqin Wang, Chunbao Zhou, Yingsi Wu, Jianxin Wang, Chunguang Zhou, and Yanchun Liang

SVM Learning from Imbalanced Data by GA Sampling for Protein Domain Prediction

Shuxue Zou, Yanxin Huang, Yan Wang, Jianxin Wang, and Chunguang Zhou

Fast Mutation Operator Applied in Detector Generating Strategy

Xingbao Liu, Zixing Cai, and Chixin Xiao

Research on Signaling Pathway Reconstruction Based on HMM

Shanhong Zheng, Chunguang Zhou, Yanwen Li, and Guixia Liu

Improved GVF Based Left Ventricle Segmentation from Cardiac MR Images
Jia Liang, and Yuanquan Wang

A Novel Approach of Face Detection Based on Skin Color Segmentation and PCA
Jing Zhang, Yang Liu, and Seok-wun Ha

A Genetic Algorithm for Single Individual SNP Haplotype Assembly
Jingli Wu, Jianxin Wang, and Jianer Chen

Greedily Mining I-Dense Subgraphs in Protein Interaction Networks

Min Li, Jianxin Wang, Jianer Chen, and Bin Hu

ICYCS08 Session S8C3B (Room R5)
Neural Networks, Pattern Recognition, and Machine Learning Chair: Yue Lu, East China Normal University, China

Cascade Linear SVM for Object Detection
Jinze Song, Tao Wu, and Ping An

Exploiting LCSVC Algorithm for Expression Recognition

Shuren Zhou, Ximing Liang, and Can Zhu

Face Recognition Using Scale Invariant Feature Transform and Support Vector Machine

Lichun Zhang, Junwei Chen, Yue Lu, and Patrick Wang

Automata for Weak Factor Recognition

Meng Zhang, Yi Zhang, Kuo Zhao, and Liang Hu

Implementation of String Recognition Algorithm Based on the Principle of Artificial Immunology

Junmin Ye, Junjie Wang, Wei Dong, and Zhichang Qi

The Density Connectivity Information Bottleneck

Yongli Ren, Yangdong Ye, and Gang Li

A Segment Extraction-Combination Algorithm Based on Polygonal Approximation and Finite State Machines for On-Line Chinese Character Recognition

Xinqiao Lu

Multi-Text Fusion Computation Based on Flexible Interval Control

Lingyu Xu, Na Zhang, Wentao Huang, Shijie Sun

ICYCS08 Session S6C2B (Room R6)
Computer Storage Technology Chair: Jianxin Wang, Central South University,

China

The P2P Communication Model for a Local Memory based Multi-core Processor
Jianjun Guo, Kui Dai, Mingche Lai, and Zhiying Wang

ISOS: Space Overlapping Based on Iteration Access Patterns for Dynamic Scratch-pad Memory Management in Embedded Systems
Yanqin Yang, Zili Shao, Linfeng Pan, and Minyi Guo

A Data Storage Method Based on Query Processing Region in Wireless Sensor Networks
Fangfang Li, Chuanwen Li, Xiaochun Yang, and Ge Yu

Robust Feature Extraction for the Composite Surface Mesh from STL File
Shengyuan Yang, and Shi Shu

An Implementation of Parallel MLFMA on a Cluster of Computers with Distributed Memory
Hailin Guo, Xiaoyan Xue, Xingang Wang, Weiqin Tong, and Weili Ni

Research on Trusted Access Technology of Grid Resource Based on the Virtual Machine
Zhenyu Wang, Qi Feng, Rui Xu, Zengjie Dou, and Xin Chen

Saber: Sequential Access Based Cache Replacement to Reduce the Cache Miss Penalty
Yingjie Zhao, and Nong Xiao

VM-based Architecture for Network Monitoring and Analysis
Qiang Li, Qinfen Hao, Limin Xiao, and Zhoujun Li

ICYCS08 Session S8C4B (Room R7) Genetic Algorithm, Data-Mining, and Clustering Chair: Hong Li, Central South University, China

Concept Semilattice: Construction and Complexity
Chengming Qi, Yingjie Tian, Shoumei Cui, and Yunchuan Sun

A Dynamic Weighted Ensemble to Cope With Concept Drifting Classification
Dengyuan Wu, Kai Wang, Tao He, and Jicheng Ren

Concept Granular System and Granular Concept Lattice
Hong Li

FSMBO: Fast Time Series Similarity Matching Based on Bit Operation
Kaifu Lu, Shukuan Lin, Jianzhong Qiao, Ge Yu, and Hualei Liu

Algorithm for Fast Spatial Outlier Detection
Anrong Xue, Lin Yao, Shiguang Ju, Weihe Chen, and Handa Ma

An Earthquake Sequential Pattern Mining Algorithm Based on General Constraint
Shaochun Wu, Minfu Fang, Yinyin Li, and Bofeng Zhang

Multi-Stage Partner Selection Based on Genetic-Ant Colony Algorithm in Agile Supply Chain Network

Zheng Lin, and Lubin Wang

Fractal Image Compression by Ant Colony Algorithm

Jinjiang Li, Da Yuan, Qingsong Xie, and Caiming Zhang

TrustCom08 Session T6B (Room R8)
Trusted Computing Platform and Trusted Software Chair: Zhexuan Song, Fujitsu Laboratories of America, USA

A Test Method of Trusted Computing Supporting Software

Fan He, Huanguo Zhang, and Mei Tang

Research on Automated Testing of the Trusted Platform Model

Jing Zhan, Huanguo Zhang, and Bingyu Zou

A Generalized Trusted Virtualized Platform Architecture

Anbang Ruan, Qingni Shen, and Yuanyou Yin

Model-Driven Remote Attestation: Attesting Remote System from Behavioral Aspect

Liang Gu, Xuhua Ding, Robert H. Deng, Yanzhen Zou, Bing Xie, Weizhong Shao, and Hong Mei

Efficient Identity-Based Key Issue with TPM

Zhi Guan, Huiping Sun, Zhong Chen, and Xianghao Nan

Secure Boot Revisited

Johannes Winter, and Kurt Dietrich

An Analysis to Understand Software Trustworthiness

Thomas Tan, He Mei, Ye Yang, Qing Wang, and Mingshu Li

ICYCS08Session S3C4 (Room R9)
Computer Communications Chair: Hongke Zhang, Beijing Jiaotong University, China

A Review of Personal Communications Services

Hui Cheng, Xingwei Wang, Min Huang, and Shengxiang Yang

An Algorithm for Computing 4M-Point DFT Based on 4-Point DFT Block

Haijun Li, Hongbo Zou, Peirong Ji, and Xuejun Zhou

Throughput Bounds of Unslotted CDMA Packet Networks

Xiaoding Liao, Jingnan Nie, and Lei Zhang

An Adaptive QoS-Supported Backoff Mechanism for IEEE 802.11

Zhihui Ge, and Taoshen Li

Controlled Clipper Method to Reduce PAPR by Tone Reservation in OFDM System

Ning Chen, Xuzhi Lai, and Changbin Lu

Fibonacci Jacket Linear Network Codes

Ying Guo, and Zhigang Chen

A Covert Communication Model Based on Least Significant Bits Steganography in Voice over IP

Hui Tian, Ke Zhou, Yongfeng Huang, Dan Feng, and Jin Liu

Probabilistic Event-driven Heuristic Fault Localization using Incremental Bayesian Suspected Degree
Cheng Zhang, Jianxin Liao, and Xiaomin Zhu

Heng Song, and Jingbo Guo

A Chaotic Image Encryption Scheme Based on Circular Bit Shift Method
Chong Fu, and Zhiliang Zhu

IWCFTA08 Session F9 (Room R10)
Secure Communication, Circuits Design and Signal Processing Chair: Simin Yu, Guangdong University of Technology, China

18:00-20:00 Closing Remark/Dinner

Saturday & Sunday, November 22-23, 2008

Post-Conference Tours at Zhang Jia Jie

Chaotic Time Series Forecasting Base on Fuzzy Adaptive PSO for Feedforward Neural Network Training
Wenyu Zhang, Jinzhao Liang, Jianzhou Wang, and Jinxing Che

Stability and Hopf Bifurcation in a Generalized Prototype Delayed System
Junbiao Guan, Shujuan Guo, and Xinchu Fu

A Rigorous Computer-Assisted Verification of Horseshoe Chaos in a Seasonally Forced SEIR Epidemic Model
Wenjuan Wu, Zengqiang Chen, and Zhuzhi Yuan

The Analysis and Circuit Implementation of a New Hyper-Chaos System
Hongyan Jia, Zengqiang Chen, and Zhuzhi Yuan

A Novel Fourth-Order Chaotic Circuit and its Implementation
Zhusong Liu, Simin Yu, Guobo Xie, and Yijun Liu

Optimization of One-Dimensional Coded Modulations Using Chaotic Maps

