

2008 IEEE International Conference on Networking, Sensing and Control

Final Program



Sanya, China, April 6-8, 2008



IEEE

IEEE Systems, Man and Cybernetics Society



2008 IEEE International Conference on Networking, Sensing and Control

Sponsored by the IEEE Systems, Man and Cybernetics Society
April 6-8, 2008 Sanya, China

2008 IEEE ICNSC ORGANIZING COMMITTEE

General Chair:	Derong Liu, University of Illinois at Chicago, USA
General Co-Chair:	Tianyou Chai, Northeastern University, China
Program Chair:	Jiacun Wang, Monmouth University, USA
Program Co-Chairs:	S. Masoud Sadjadi, Florida International University, USA Xuemin Chen, Texas Southern University, USA
Special Sessions Co-Chairs:	Zhixiong Chen, Mercy College, USA Sanqing Hu, Mayo Clinic College of Medicine, USA
Publications Chair:	Huanguang Zhang, Northeastern University, China
Publicity Co-Chairs:	Yueming Hu, South China University of Technology, China Changyin Sun, National Natural Science Foundation of China
Registration Chair:	Chonghui Song, Northeastern University, China
Exhibits Chair:	Min Gao, Northeastern University, China
Finance Chair:	Bhaskar DasGupta, University of Illinois at Chicago, USA
Local Arrangements Chair:	Shenping Li, Shantou University, China
International Liaison Chair:	Zeng-Guang Hou, Chinese Academy of Sciences, China
Industrial Liaison Co-Chairs:	Tong Sun, Xerox Corporation, USA Xiping Song, Siemens Corporate Research, USA
Student Activities Chair:	Guisheng Zhai, Osaka Prefecture University, Japan
Electronic Review Chair:	Ting Huang, University of Illinois at Chicago, USA
Advisory Chairs:	Tsu-Tian Lee, National Taipei Univ. of Technology, Taiwan Fei-Yue Wang, University of Arizona, USA



2008 IEEE International Conference on Networking, Sensing and Control

Sponsored by the IEEE Systems, Man and Cybernetics Society
April 6-8, 2008 Sanya, China

GREETINGS FROM THE GENERAL CHAIRS

On behalf of the organizing committee, we are very pleased to welcome you to the 2008 IEEE International Conference on Networking, Sensing and Control (IEEE ICNSC '08). We hope you enjoy the next few days and find them stimulating and fruitful.

The technologies in networking, sensing and control have been playing important roles in our modern civilization and expected to stay as main characters in the future. The conference intends to bring together all researchers and developers in these fields all around the world to share their research results, to exchange ideas and to explore possible collaborations in academia and industry. With the tremendous work of the members of the International Program Committee, the final program has a unique set of technical sessions covering latest research and development results in networking, sensing and control. It contains a number of high level theoretical papers as well as many interesting application papers.

Following the IEEE ICNSC tradition, there is an excellent set of plenary talks. On Monday morning starting at 8:30, we will have three plenary talks in a row. The first talk is on "Sensing and Control over Heterogeneous Networks with Limited Transmission", delivered by Prof. Tamer Basar, Univ. of Illinois at Urbana-Champaign. The second talk is on "Multi-Agent Systems with Local Rules: Towards a Theory of Analysis and Control," given by Dr. Lei Guo, Chinese Academy of Sciences. The last one is going to be presented by Prof. MengChu Zhou, New Jersey Institute of Technology. His topic is Petri nets.

We would like to take this opportunity to thank the members of the organizing committee and the international program committee for their fantastic work. Our sincere thanks also go to many volunteers for their diligence and dedication in the preparation of this conference. Finally, we want to thank the Board of Governors of the IEEE Systems, Man and Cybernetics Society for their helps and guidance.

Derong Liu
General Chair



Tianyou Chai
General Co-Chair



2008 IEEE ICNSC INTERNATIONAL PROGRAM COMMITTEE

Agina, Michael	Li, Jing	Sun, Tong
Amiri, Mahmood	Li, Kang	Sun, Wei
Anthony, Tzes	Li, Li	Tang, Chiping
Badia, Rosa M.	Li, Shaoyuan	Tang, Ying
Bo, Yuming	Li, Xiangyang	Tepfenhart, William
Cai, Ying	Li, Xiaou	Thomas, Graham
Cao, Jian	Li, Xuelong	Trefftz, Christian
Cao, Jinde	Li, Yangmin	Tsourdos, Antonios
Chai, Tianyou	Li, Zhengming	Wang, Changjiao
Charkari, Nasrollah M.	Liang, Jinling	Wang, Dianhui
Chen, Ji	Liu, Derong	Wang, Hongbo
Chen, Shu-Ching	Liu, Guohai	Wang, Jiacun (Chair)
Chen, Wen-Hua	Liu, Jason	Wang, Lei
Chen, Xuemin (Co-Chair)	Liu, Lichuan	Wang, Xiaofan
Chen, YangQuan	Liu, Yutian	Wang, Xiaofang
Chen, Yuehui	Lu, Chao	Wang, Yinghai
Chen, Zengqiang	Lu, Jinhu	Wang, Yinglin
Chen, Zhixiong	Lukszo, Zofia	Wang, Zhe
Chu, Rambis	Luo, Fa-Long	Wang, Zidong
Cichocki, Andrzej	Luo, Tiejian	Wu, Naiqi
Dai, Qionghai	Ma, Xiandong	Xie, Lihua
Dai, Yuewei	Meng, Dan	Xu, Dianxiang
Darayan, Shahryar	Meng, Yan	Xu, Gang
Dasgupta, Gargi B	Miao, Qinghai	Yang, Guowei
Deng, Mingcong	Milewski, Allen	Yang, Shuang-Hua
Ding, Junhua	Olowokere, David	Yang, Simon X.
Dong, Haobin	Pan, Ya-jun	Yang, Yongmin
Duan, Hai-Bin	Patino, Daniel H.	Yang, Zongxiao
Duran-Limon, Hector A.	Piazza, Francesco	Ye, Cang
Ege, Raimund	Prabu, Dorairaj	Yi, Jianqiang
Esfahanian, Abdol-Hossein	Pu, Geguang	Yu, Lei
Ezenwoye, Onyeka	Qiao, Fengxiang	Yu, Meng
Gao, Guoqin	Qiao, Junfei	Yu, Ming
Grace, Paul	Rangaswami, Raju	Yu, Wen
Guo, Ping	Ranka, Sanjay	Yu, Wensheng
Guo, Xin	Rosca, Daniela	Yue, Dong
He, Haibo	Sadjadi, S. Masoud (Co-Chair)	Zang, Wanyu
Hong, Wei-Chiang	Sarbazi-azad, Hamid	Zeng, Zhigang
Hou, Zhongsheng	Schmidt, Doug	Zhang, Chi
Hu, Hesuan	Shan, Ganlin	Zhang, Hongjun
Hu, Sanqing	Shen, Lin	Zhang, Nian
Hu, Xuelei	Shen, Yi	Zhang, Wei Xing
Huang, Guang-Bin	Shi, Yang	Zhang, Yongpeng
Jiang, Zaihan	Shiau, Jiun-Yan	Zhang, Yu
Joo, Meng Er	Sirjani, Marjan	Zhao, Dean
Kazakos, Demetrios	Song, Xiping	Zhao, Dongbin
Kulkarni, Sandeep	Squartini, Stefano	Zhou, Xianzhong
Li, Dalong	Sun, Changyin	Zhu, Haibin
Li, Demin	Sun, Fuchun	Zhu, Huibiao
Li, Huaizhong	Sun, Jitao	Zhu, Jihong
		Zhu, Rihong

CONFERENCE HIGHLIGHTS

A total of 656 papers were submitted to the 2008 IEEE ICNSC from different parts of the world. Each paper was reviewed by two or three reviewers. The final program includes 355 papers, among which 295 are contributed papers and 60 are special session papers. There are 3 plenary talks, 32 lecture sessions, 10 special sessions and 2 interactive sessions. Each lecture session and special session consists of 6 papers. Papers were assigned with the purpose of forming coherent sessions.

CONFERENCE LOCATION

The conference will be held inside the International Asia Pacific Convention Center & HNA Resort Sanya, which is located in the heart of the picturesque Sanya Bay resort district.



CONFERENCE REGISTRATION

The conference registration service will be open during the following time slots:

- 3:00 PM – 5:00 PM, Saturday, April 5, 2008
- 8:30 AM – 5:00 PM, Sunday, April 6, 2008
- 8:30 AM – 5:00 PM, Monday, April 7, 2008
- 8:30 AM – 12:00 PM, Tuesday, April 8, 2008

SOCIAL EVENTS

Welcome reception: 6:00 PM – 7:30 PM, Saturday, April 5, 2008

Conference banquet: 6:00 PM – 8:30 PM, Monday, April 7, 2008

HOTEL RESERVATIONS

The information on hotel reservation is available at <http://cil.ece.uic.edu/ICNSC08/hotel.html>

TRANSPORTATION

The International Asia Pacific Convention Center & HNA Resort Sanya is located only a 15 minutes' drive from Sanya Phoenix Airport. Taxi charge for the journey is 50-80 Chinese Yuan.

ABOUT SANYA

Sanya is located on the southernmost tip of Hainan Island. Sanya is the island's most famous tropical resort, wonderful in the baking summer months and also a popular spot in winter. Once home to China's most reviled exiles, Sanya has been transformed from a spot that no one wanted to visit at the 'end of the world', to become one of China's most popular, most beautiful and relaxed areas.

Sanya town is situated on a small peninsula, connected to the mainland by two bridges. The town itself is a noisy and atmospheric place. This is an active naval base and men in uniform, 'ladies of the night' and fishermen all mingle together around the docks and wharf area. This is a great place to soak up some atmosphere and the night market here is especially lively with seafood thrown on the streets, stores selling all types of weird and wonderful wares and huge tea warehouses, all adding to the chaotic feeling about this place. And it is the beaches that are the biggest attraction here.

Sanya has some of the most beautiful and well-maintained stretches of sand not just in China but in southern Asia. The sand here is white, palm trees provide shelter from the sun and the sea is wonderfully blue and warm. This is just about the only place in China with a really laid-back feeling and atmosphere. You could spend anything from a few days to a week or so here, soaking up the sun, relaxing and just enjoying the unique and relaxed ambience that dominates this place.

For attractions in Sanya, visit the website at <http://www.travelchinaguide.com/attraction/hainan/sanya/>.

PLENARY SPEAKERS

Prof. Tamer Basar, University of Illinois at Urbana-Champaign



Tamer Basar is with the University of Illinois at Urbana-Champaign (UIUC), where he holds the positions of Swanlund Endowed Chair, Center for Advanced Study Professor of Electrical and Computer Engineering, Research Professor at the Coordinated Science Laboratory, and Research Professor at the Information Trust Institute. He received the B.S.E.E. degree from Robert College, Istanbul, and the M.S., M.Phil, and Ph.D. degrees from Yale University. He joined UIUC in 1981 after holding positions at Harvard University and Marmara Research Institute (Turkey).

He has published extensively in systems, control, communications, and dynamic games, and has current research interests in modeling and control of communication networks; control over heterogeneous networks; estimation and control with limited sensing and transmission; resource allocation, management and pricing in networks; mobile and distributed computing; and security issues in computer networks.

Dr. Basar is currently the Editor-in-Chief of *Automatica*, the Editor-in-Chief of *IEEE Expert Now*, Editor of the Birkhuser Series on Systems & Control, Managing Editor of the *Annals of the International Society of Dynamic Games (ISDG)*, and member of editorial and advisory boards of several international journals in control, wireless networks, and applied mathematics. He has received several awards and recognitions over the years, among which are the Medal of Science of Turkey (1993); Distinguished Member Award (1993), Axelby Outstanding Paper Award (1995), and Bode Lecture Prize (2004) of the IEEE Control Systems Society (CSS); Tau Beta Pi Drucker Eminent Faculty Award of UIUC (2004); Quazza Medal (2005) and Outstanding Service Award (2005) of the International Federation of Automatic Control (IFAC); and Bellman Control Heritage Award of the American Automatic Control Council (2006). He is a member of the US National Academy of Engineering, a member of the European Academy of Sciences, a Fellow of IEEE, a Fellow of IFAC, a past president of CSS, and the founding president of ISDG.

Prof. Lei Guo, Chinese Academy of Sciences



Lei Guo was born in China in 1961. He received the B.S. degree in mathematics from Shandong University in 1982, and the Ph.D. degree in control theory from the Chinese Academy of Sciences in 1987. He was a postdoctoral fellow at the Australian National University (1987-1989), and a visiting professor at several universities in the US and Europe. Since 1992, he has been a Professor of the Institute of Systems Science at the Chinese Academy of Sciences (CAS), where he had been the Director of the Institute (1999-2002). He is currently the President of

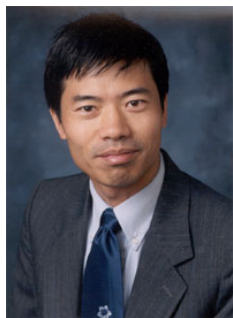
the Academy of Mathematics and Systems Science, CAS.

Prof. Guo was elected Fellow of the IEEE in 1998, Member of the Chinese Academy of Sciences in 2001, Fellow of the Academy of Sciences for the Developing World (TWAS) in 2002, Foreign Member of the Royal Swedish Academy of Engineering Sciences in 2007, and Fellow of the International Federation of Automatic Control (IFAC) in 2007 “for fundamental contributions to the theory of adaptive control and estimation of stochastic systems, and to the understanding of the maximum capability of feedback.” He has twice received, in 1987 and 1997, the National Natural Science Prize of China. He was also the recipient of the 1993 IFAC World Congress Young Author Prize “for solving a long standing problem in control theory concerning convergence and convergence rate for the least-squares-based self-tuning regulators.” He was invited to give lectures at various international conferences, including Plenary Lecture at the 1999 International Federation of Automatic Control (IFAC) World Congress, and Invited Lecture at the 2002 International Congress of Mathematicians (ICM).

He is currently a Council Member of IFAC, a member of the IFAC Award Committee, the Editor-in-Chief of the Journal of Systems Science and Complexity, and is on the editorial boards of numerous technical journals including Systems and Control Letters and Communications in Information and Systems. He is a member of the Chinese National Award Committee on Science and Technology, a Vice-President of the Chinese Association of Automation, a Vice-President of the Chinese Mathematical Society, and a Vice-President of the Chinese Society for Industry and Applied Mathematics. Dr. Guo had been an Associate Editor of the SIAM J. on Control and Optimization (1991-1993), and the Chairman of the IFAC Technical Committee on Modeling, Identification and Signal Processing (1999-2002).

He has worked on problems in adaptive control, system identification, stochastic systems, nonstationary time-series analysis and adaptive signal processing. His current research interests include the maximum capability and limitations of feedback, global controllability of nonlinear systems, multi-agent systems, complex adaptive systems and quantum control systems.

Prof. MengChu Zhou, New Jersey Institute of Technology



MengChu Zhou received his B.S. degree from Nanjing University of Science and Technology, Nanjing, China in 1983, M.S. degree from Beijing Institute of Technology, Beijing, China in 1986, and Ph. D. degree in Computer and Systems Engineering from Rensselaer Polytechnic Institute, Troy, NY in 1990. He joined New Jersey Institute of Technology (NJIT), Newark, NJ in 1990, and is currently a Professor of Electrical and Computer Engineering and the Director of Discrete-Event Systems Laboratory. His research interests are in Petri nets, computer-integrated systems, wireless ad hoc and sensor networks, system security, semiconductor manufacturing, and embedded control. He has about 300 publications including 6 books, 120+ journal papers, and 16 book-chapters. He co-authored with F. DiCesare Petri Net Synthesis for

Discrete Event Control of Manufacturing Systems, Kluwer Academic, Boston, MA, 1993, edited Petri Nets in Flexible and Agile Automation, Kluwer Academic, 1995, co-authored with K. Venkatesh Modeling, Simulation, and Control of Flexible Manufacturing Systems: A Petri Net Approach, World Scientific, 1998, co-edited with M. P. Fanti, Deadlock Resolution in Computer-Integrated Systems, Marcel Dekker, 2005, and co-authored with B. Hruz, Modeling and Control of Discrete Event Dynamic Systems, Springer, 2007. Based on the data analysis from Scopus database (the world's most extensive database covering science and engineering papers), in the area of Petri nets, Dr. Zhou ranks the top one in terms of the number of publications; and top two in terms of the number of citations. He ranks the top one in the area of automated manufacturing systems in both indices. He served as Associate Editor of IEEE Transactions on Robotics and Automation from 1997 to 2000, and IEEE Transactions on Automation Science and Engineering from 2004-2007, and currently Managing Editor of IEEE Transactions on Systems, Man and Cybernetics: Part C, Associate Editor of IEEE Transactions on Systems, Man and Cybernetics: Part A and IEEE Transactions on Industrial Informatics, and Editor-in-Chief of International Journal of Intelligent Control and Systems. He served as Guest-Editor for many journals including IEEE Transactions on Industrial Electronics and IEEE Transactions on Semiconductor Manufacturing. He was General Co-Chair of 2003 IEEE International Conference on System, Man and Cybernetics, Washington DC, October 5-8, 2003, Founding General Co-Chair of 2004 IEEE Int. Conf. on Networking, Sensing and Control, Taipei, March 21-23, 2004, and General Chair of 2006 IEEE Int. Conf. on Networking, Sensing and Control, Ft. Lauderdale, Florida, U.S.A. April 23-25, 2006. He was Program Chair of 1998 and 2001 IEEE International Conference on System, Man and Cybernetics (SMC) and 1997 IEEE International Conference on Emerging Technologies and Factory Automation. He is serving as General Chair of IEEE Conf. on Automation Science and Engineering, Washington D.C., August 23-26, 2008. Dr. Zhou was the recipient of NSF's Research Initiation Award, CIM University-LEAD Award by Society of Manufacturing Engineers, Perlis Research Award by NJIT, Humboldt Research Award for US Senior Scientists, Leadership Award and Academic Achievement Award by Chinese Association for Science and Technology-USA, Distinguished Lecturer of IEEE SMC Society, and Chang Jiang Visiting Scholars Program Award from PRC Ministry of Education. He was the founding chair of Discrete Event Systems Technical Committee of IEEE SMC Society, and Chair of Semiconductor Manufacturing Automation Technical Committee of IEEE Robotics and Automation Society. He is a life member of Chinese Association for Science and Technology-USA and served as its President in 1999.

PAST AND PRESENT OF IEEE ICNSC

2004 IEEE International Conference on Networking, Sensing and Control

GC: Tsu-Tian Lee; Co-GCs: MengChu Zhou and Hideki Hashimoto

PC: D. T. Lee; Co-PCs: W. A. Gruver, R. Hsing, S. Kamijo, and H. P. Huang

Venue: Taipei, Taiwan

Date: March 21-23, 2004.

2005 IEEE International Conference on Networking, Sensing and Control

GC: Fei-Yue Wang

Co-PCs: MengChu Zhou, Christoforos Hadjicosits, and MuDer Jeng

Venue: Tucson, Arizona

Date: March 19-22, 2005.

2006 IEEE International Conference on Networking, Sensing and Control

GC: MengChu Zhou; Co-GCs: Chi-Hsu (Cash) Wang

PC: Derong Liu; Co-PCs: Zofia Lukszo and Clay Okino

Venue: Ft. Lauderdale, Florida

Date: April 23-25, 2006.

2007 IEEE International Conference on Networking, Sensing and Control

GC: Guoping Liu; Co-GCs: David Rees, Zofia Lukszo

PC: Hongnian Yu; Co-PCs: George Irwin, Sandro Zampieri and Shuanghua Yang

Venue: London, UK

Date: April 15-17, 2007.

2008 IEEE International Conference on Networking, Sensing and Control

GC: Derong Liu; Co-GC: Tianyou Chai

PC: Jiacun Wang; Co-PCs: S. Masoud Sadjadi and Xuemin Chen

Venue: Sanya, China

Date: April 6-8, 2008.



2008 IEEE International Conference on Networking, Sensing and Control

Sponsored by the IEEE Systems, Man and Cybernetics Society
April 6-8, 2008 Sanya, China

CONFERENCE PROGRAM

Saturday, April 5, 2008

15:00 - 17:00: Registration
18:00 - 19:30: Welcome Reception

Sunday, April 6, 2008

08:30 - 10:30: Registration					
10:30 - 12:00: Parallel Paper Sessions					
Hong Kong	Seoul	Taipei	Bangkok	Sydney	Osaka
SunN01 Control theory and application 1	SunN02 Embedded systems	SunN03 Formal methods and application	SunN04 Fuzzy modeling and control	SunN05 Grid and cluster computing	SunN06 Special Session: Humanized systems 1
12:00 - 13:30: Lunch					
13:30 - 15:00: Parallel Paper Sessions					
Hong Kong	Seoul	Taipei	Bangkok	Sydney	Osaka
SunA01 Control theory and application 2	SunA02 Emergency response and homeland security	SunA03 Mobile networks	SunA04 Multi-agent systems	SunA05 Networked control	SunA06 Neural networks 1
15:00 - 15:30: Break					
15:30 - 18:00: Interactive Session (Gallery, 3rd Floor)					
Interactive Section A (InterA)					

Monday, April 7, 2008

08:30 - 09:30: Plenary Lecture 1 (Room: Beijing)					
<p>Title: Sensing and Control over Heterogeneous Networks with Limited Transmission Speaker: Tamer Basar, Univ. of Illinois at Urbana-Champaign, USA</p>					
09:30 - 10:30: Plenary Lecture 2 (Room: Beijing)					
<p>Title: Multi-Agent Systems with Local Rules: Towards a Theory of Analysis and Control Speaker: Lei Guo, Chinese Academy of Sciences</p>					
10:30 - 11:00: Coffee Break					
11:00 - 12:00: Plenary Lecture 3 (Room: Beijing)					
<p>Title: Petri Nets Speaker: MengChu Zhou, New Jersey Institute of Technology, USA</p>					
12:00 - 13:30: Lunch					
13:30 - 15:00: Parallel Paper Sessions					
Hong Kong	Seoul	Taipei	Bangkok	Sydney	Osaka
MonA01 Control theory and application 3	MonA02 Image processing 1	MonA03 Special Session: New ideas and new challenges for business	MonA04 Novel system design and development	MonA05 Pattern recognition	MonA06 Special Session: Recurrent neural networks
15:00 - 15:30: Break					
15:30 - 17:00: Parallel Paper Sessions					
Hong Kong	Seoul	Taipei	Bangkok	Sydney	Osaka
MonE01 Control theory and application 4	MonE02 Image processing 2	MonE03 Robotics and control	MonE04 Routing	MonE05 Target tracking systems	MonE06 Wireless sensor networks 1
18:00-20:30: Banquet					

Tuesday, April 8, 2008

08:30 - 10:00: Parallel Paper Sessions					
Hong Kong	Seoul	Taipei	Bangkok	Sydney	Osaka
TueM01 Sensor design and application	TueM02 System performance and optimization	TueM03 Security 1	TueM04 Special Session: Ubiquitous computing	TueM05 Special Session: Service oriented computing	TueM06 Special Session: Humanized systems 2
10:00 – 10:30: Coffee Break					
10:30 - 12:00: Parallel Paper Sessions					
Hong Kong	Seoul	Taipei	Bangkok	Sydney	Osaka
TueN01 Wireless sensor networks 2	TueN02 Neural networks 2	TueN03 Security 2	TueN04 Special Session Intelligent multimedia information system	TueN05 Image processing 3	TueN06 Networks and applications
12:00 - 13:30: Lunch					
13:30 - 15:00: Parallel Paper Sessions					
Hong Kong	Seoul	Taipei	Bangkok	Sydney	Osaka
TueA01 Wireless sensor networks 3	TueA02 Special Session: Analysis of neural data	TueA03 Special Session: Biomedical signal analysis	TueA04 Special Session Collaborative product development	TueA05 Web services	TueA06 Special Session: Computational intelligence in robotics
15:00 - 15:30: Coffee Break					
15:30 - 18:00: Interactive Session (Gallery, 3rd Floor)					
Interactive Section B(InterB)					

TECHNICAL PROGRAM

10:30-12:00, Sunday, April 6

SunN01 (Room: Hong Kong)

Control Theory and Application 1

Chair: Mingcong Deng, Okayama University, Japan
Co-Chair: Wei-Li Hu, Nanjing Univ of Sci. and Tech., China

10:30-10:45

A Dual-quaternion Method for Control of Spatial Rigid Body
pp.1-6

Dapeng Han,
Qing Wei, National Univ. of Defense Tech., China
Zexiang Li, Hong Kong Univ. of Sci. and Tech

10:45-11:00

Adaptive Control of CSTR Using Feedback Linearization
Based on Grey-Box Modeling pp.7-12

Farzad Hourfar, Univ. of Tehran, Iran
Karim Salahshoor, Petroleum Univ. of Tech., Iran

11:00-11:15

An Efficient Indirect Identification Method for Feedback
Control System pp.13-18

Li-Juan Jia,
Ran Tao,
Yue Wang,
Shunshoku Kanae,
Zi-Jiang Yang, Beijing Institute of Technology, China
Kiyoshi Wada, Kyushu University, Japan

11:15-11:30

An Open-loop Control System of Three-phase AC Motor Based
on DSP pp.19-21

Sanqi Zhou,
Daming Jiang, Beijing Jiao Tong Univ., China
Denghua Li, Beijing Information Tech Institute, China

11:30-11:45

Analysis and Experimental Study on Networked Nonlinear
Controller Design for a Water Level Process Experimental
Process pp.22-25

Mingcong Deng,
Akira Inoue,
Kazuki Umamoto, Okayama University, Japan

11:45-12:00

Controller Design of the Networked Control Systems with
Multi-packet-transfer pp.26-31

Wei-Hua Fan,
Rong-Hua Xie,
Qing-Wei Chen,
Wei-Li Hu, Nanjing Univ of Sci. and Tech., China

SunN02 (Room: Seoul)

Embedded Systems

Chair: Richard Liu, Univ. of Houston, U.S.A
Co-Chair: Yongmin Yang, Univ. of Defense Tech., China

10:30-10:45

A Two-level Hierarchical Scheduling Scheme for Hybrid Tasks
in Priority-Based Preemptive Systems pp.32-36

Jiafu Wan,
Di Li,
Feng Ye,
Yizong Lai
Zhaogang Shu, South China Univ. of Tech., China

10:45-11:00

Automatic Skid Number Evaluation Using Texture Laser
Measurement pp.37-42

Jiabin Xie,
Richard Liu, Univ. of Houston, U.S.A
Brian Michalk, Texas Department of Transportation, U.S.A

11:00-11:15

Design of Infrared Signal Emission Based on MCS-51
Microprocessor pp.43-45

Hongnan Zhang,
Chao Jiang
Yayou Huang, Hunan Univ., China
Saichun Hu, Hunan City Univ., China

11:15-11:30

Round-robin based scheduling algorithms for FIFO IQ switch
pp.46-51

Xiao-jing Zhu, Univ. of Science and Tech. of China
Hong-bo Zeng,
Kun Huang,
Ge Zhang, Institute of Computing Tech., China

11:30-11:45

Scatter Search algorithm for multi-headed Mounter pp.52-55

Peng Yuan,
Yue-ming Hu,
Hai-ming Liu,
Hong-xia Gao, South China Univ. of Tech., China

11:45-12:00

Wireless Embedded Signals Acquisition for Mechanical Systems pp.56-60

Yongmin Yang,
Zhongsheng Chen,
Hao Liu,
Zheng Hu, National Univ. of Defense Tech., China

SunN03 (Room: Taipei)

Formal Methods and Application

Chair: M.N.H. Tabrizi, East Carolina Univ., U.S.A
Co-Chair: Naiqi Wu, Guangdong Univ. of Tech, China

10:30-10:45

Study of DoD Architecture Simulation Validation based on UML and Extended Colored Petri Nets pp.61-66

Xiao-li Bai,
Xue-shan Luo,
Xian-qing Yi,
Hong-hui Chen,
De-ke Guo, National Univ. of Defense Tech., China;
Xiao-hui Bai, Hei Long Jiang Univ., China

10:45-11:00

A Deadlock Prevention Policy for FMS Using Elementary Siphons of Petri Nets with Uncontrollable Transitions pp.67-72

Zhiwu Li, Xidian Univ., China
Moshe Shpitalni, Technion-Israel Institute of Tech., Israel

11:00-11:15

A Reduction method for Verification of Security Protocol through CPN pp.73-77

Yanlan Ding
Guiping Su, Graduate Univ. of CAS, China

11:15-11:30

Modeling and Model Checking of a Clinical Diagnostic Algorithm pp.78-83

Junhua Ding
M.N.H. Tabrizi, East Carolina Univ., U.S.A

11:30-11:45

Modeling and Schedulability Analysis of Single-Arm Cluster Tools with Wafer Residency Time Constraints Using Petri Net pp.84-89

Naiqi Wu, Guangdong Univ. of Technology, China
Chengbin Chu,
Feng Chu, Univ. of Technology of Troyes, France
MengChu Zhou, New Jersey Institute of Tech., U.S.A

11:45-12:00

On the Existence of a Maximally Permissive Liveness-enforcing Petri Net Supervisor for Flexible Manufacturing Systems pp.90-95

Zhiwu Li, Xidian Univ., China
Moshe Shpitalni, Technion-Israel Institute of Tech., Israel

SunN04 (Room: Bangkok)

Fuzzy Modeling and Control

Chair: Min Tan, Chinese Academy of Sciences, China
Co-Chair: Huaguang Zhang, Northeastern Univ., China

10:30-10:45

Anticontrol of Chaos for Discrete-time Dynamical Systems via Fuzzy Hyperbolic Models pp.96-100

Yan Zhao,
Huaguang Zhang, Northeastern Univ., China

10:45-11:00

Application of fuzzy observer and controller in gas-lifted oil wells pp.101-106

E. Jahanshahi,
K. Salahshoor,
Y. Sahraie, Petroleum Univ. of Tech., Iran

11:00-11:15

Fuzzy Random EOQ Model with Defective Items and Shortages pp.107-110

Xiaobin Wang, Shandong Univ. of Finance, China
Wansheng Tang, Tianjin Univ., China
Ying Sai
Kangkang Zhang, Shandong Univ. of Finance, China

11:15-11:30

Novel Hybrid Learning Algorithms for Tuning ANFIS Parameters as an Identifier Using Fuzzy PSO pp.111-116

M. Teshnehlab,
M. Aliyari Shoorehdeli,
A. K. Sedigh, Toosi Univ. of Tech Tehran, Iran

11:30-11:45

Fuzzy Control of the Inspection Robot for Obstacle-Negotiation pp.117-122

Li Cai,
Zize Liang,
Zeng-guang Hou,
Min Tan, Chinese Academy of Sciences, China

11:45-12:00

Simulation on Temperature Fuzzy Control in Injection Mould Machine by Simulink pp.123-128

Hongfu Zhou, South China Univ. of Tech., China

SunN05 (Room: Sydney)

Grid and Cluster Computing

Chair: William Tepfenhart, Monmouth Univ., USA
Co-Chair: Lin Shen, Jiangsu Teachers Univ of Tech, China

10:30-10:45

A Modified Cluster Head Selection Algorithm Based on Random Waiting pp.129-132

Haiyan Xia, Jining Univ, China
Haiying Xia, Huazhong Univ of Sci and Tech, China

10:45-11:00

A New Kind of Cluster-based Key Management Protocol in Wireless Sensor Network pp.133-136

Lin Shen, Jiangsu Teachers Univ of Tech., China
Haidong Feng, Nanjing Univ of Sci and Tech., China
Yongsheng Qiu,
Hancheng Ding, Nanjing Univ of Posts and Telecom, China

11:00-11:15

A New Soft Sensor Based on Dynamic Principal Component Analysis and on-line Potential Fuzzy Clustering pp.137-141

Karim Amanian,
Karim Salahshoor,
Mohammad Reza Jafari,
Mohsen Mosallaie, Petroleum Univ of Tech., Iran

11:15-11:30

A Novel Network Storage Scheme: Intelligent Network Disk Storage Cluster pp.142-147

Wenfeng Wang,
Yuelong Zhao, South China Univ of Tech., China

11:30-11:45

Auto-configuration of Shared Network-layer Address in Cluster-based Wireless Sensor Network pp.148-153

Zhigao Du,
Depei Qian, Beihang University, China
Slawomir Stanczak, Fraunhofer German-Sino Lab for Mobile Communications, Germany
Yi Liu, Beihang University, China
Ruben Heras, Fraunhofer German-Sino Lab for Mobile Communications, Germany

11:45-12:00

Towards Automated Trust Negotiation for Grids pp.154-159

Shangyuan Guan,
Xiaoshe Dong,
Yiduo Mei,
Weiguo Wu,
Zhenghua Xue, Xian Jiaotong University, China

SunN06 (Room: Osaka)

Special Session:

Humanized Systems 1

Chair: Xuyan Tu, Univ of Sc and Tech., China
Co-Chair: Guowei Yang, Qingdao Univ, China

10:30-10:45

A Liense Plate Recognition System Based on GFNN and DSP pp.160-164

Guowei Yang,
QianZhu,
Jieru Chi,
Xiaodong Zhuang, Qingdao University, China

10:45-11:00

Application of LSI Based On Relevance Feedback pp.165-169

Liu Bo,
Wang Cong, Beijing Univ. of Posts and Telecom, China

11:00-11:15

Automatic Chinese Term Extraction based on Cognition Theory pp.170-174

Wei Li,
Cong Wang,
Dong-na Shi, Beijing Univ. of Posts and Telecom, China

11:15-11:30

Research of BP-SOM Evaluation Model and Its Application pp.175-179

Yan Peng, Capital Normal University, China
Like Zhuang, Ahead Software post-Doctor Scientific Workstation, China

11:30-11:45

The Application of Bayesian Network in the Performance Evaluation and Decision-making System pp.180-183

Jingjing Liu,
Yan Peng,
Ting Zhang, Capital Normal University, China

11:45-12:00

The Associative Memory Model with Expecting Fault-Tolerant Fieldon Multi-Value Information Space pp.184-189

Guowei Yang,
Xiaodong Zhuang, Qingdao University, China
Shoujue Wang, Chinese Academy of Sciences

13:30 - 15:00, Sunday, April 6

SunA01 (Room: Hong Kong)

Control Theory and Application 2

Chair: Guisheng Zhai, Osaka Prefecture Univ., Japan
Co-Chair: Weihua Gui, Central South Univ., China

13:30-13:45

DC Servo System Design Based on Fuzzy Control with DSP pp.190-194

Hongfu Zhou, South China Univ. of Tech., China

13:45-14:00

Deaerator Water Level Control Based on Neuron Intelligent Control by Fieldbus Intelligent Control Network pp.195-200

Geng Liang, North China Electric Power Univ., China

14:00-14:15

Decentralized Generalized H_2 Control of Multi-Channel Uncertain Systems with Time-Delays pp.201-205

Ning Chen,
Weihua Gui, Central South Univ., China
Guisheng Zhai, Osaka Prefecture Univ., Japan

14:15-14:30

Decentralized Impedance Control of Nonredundant Multi-manipulator Systems pp.206-211

Nasser Sadati
Alireza Ghaffarkhah, Sharif Univ. of Tech., Iran

14:30-14:45

Nonlinear Decoupled Control for Multi-motors Web Winding System Using the Sliding-mode Technique pp.212-216

Navid R.Abjadi,
Javad Askari, Isfahan Univ. of Tech., Iran
Jafar Soltani, Univ. of Malaya, Malaysia

14:45-15:00

Novel End-to-End Voice Encryption Method in GSM System pp.217-220

H.F. Qi,
X.H. Yang,
R. Jiang,
B. Liang
S.J. Zhou, Southeast Univ., China

SunA02 (Room: Seoul)

Emergency Response and Homeland Security

Chair: David Olowokere, Texas Southern Univ., USA
Co-Chair: Mitsuji Matsumoto, Waseda Univ., Japan

13:30-13:45

A Spatial Technology Approach to Campus Security pp.221-225

Xi Li, Wuhan Univ., China
Tiyan Shen, Peking Univ., China
Jinjie Zhang, China Univ. of Geosciences, China
Changmin Shi, Wuhan Univ., China

13:45-14:00

Aiding Emergency Response to Multiple Casualty Terrorist Bombings Targeting Public Surface Transportation Vehicles pp.226-231

Marcus L. da Silva,
Mitsuji Matsumoto, Waseda Univ., Japan

14:00-14:15

GY-RTI: An Integrated Distributed Simulation Environment pp.232-235

Bin Liu,
Hongjun Zhang,
Xiaojia Yang, PLA Univ. of Sci. & Tech., China

14:15-14:30

A Method for Global Attack Graph Generation pp.236-241

Dapeng Man, Harbin Engineering Univ., China
Bing Zhang, National Computer Network Emergency Response Technical Team/Coordination Center, China
Wu Yang,
Wenjin Jin,
Yongtian Yang, Harbin Engineering Univ., China

14:30-14:45

On the Mitigation of Hazards Resulting from Hurricane-Induced Forces on Residential Buildings pp.242-245

David Olowokere, Texas Southern Univ., U.S.A

14:45-15:00

Workflow Resource Requirement Modeling and Analysis pp.246-251

Jiacun Wang,
William Tepfenhart,
Daniela Rosca,
Anni Tsai, Monmouth University, U.S.A

SunA03 (Room: Taipei)

Mobile Networks

Chair: Demin Li, Donghua Univ., China
Co-Chair: Ling Ming, Southeast Univ., China

13:30-13:45

A Efficient Gateway Election and Location Service in Ad Hoc Networks pp.252-256

Demin Li,
Jie Zhou,
Fan Zhang, Donghua Univ., China
Jiacun Wang, Monmouth Univ., U.S.A

13:45-14:00

A Fast Handoff Scheme for MPLS-based Mobile IPv6 Network pp.257-261

Jianhui Huang, Xian Jiaotong Univ., China
Depei Qian, Beihang Univ., China
Shengling Wang, Xian Jiaotong Univ., China

14:00-14:15

A Phase-divided TCP Congestion Avoidance Arithmetic over Wireless Networks pp.262-266

Guoliang Yao,
Hao Liu, Southeast Univ., China

14:15-14:30

A Wireless Network Based on the Combination of Zigbee and GPRS pp.267-270

Lin Shen,
Xiangquan Shi, Nanjing Univ. of Science and Tech., China
Ling Ming, Southeast Univ., China

14:30-14:45

Capacity, Delay and Mobility in Hybrid Wireless Networks pp.271-276

Qinyun Dai,
Lu Rong,
Honglin Hu, Shanghai Inst of Micro-Sys & Info Tech, China

14:45-15:00

Determined Scheduling Algorithms for Channel Access in Wireless Mesh Networks pp.277-282

Hongju Cheng,
Guolong Chen, Fuzhou Univ., China

SunA04 (Room: Bangkok)**Multi-agent Systems**

Chair: Hassan Sayyaadi, Sharif Univ. of Tech., Iran
 Co-Chair: Xinping Guan, Yanshan Univ. China

13:30-13:45

Application of Mobile Agent Framework in the Campus Data Grid Architecture pp.283-286

Guanfeng Liu,
 Yuebin Xu,
 Zhenkuan Pan,
 Xiangxiang Meng, Qingdao Univ., China

13:45-14:00

Facility Location Optimization via Multi-Agent Robotic Systems pp.287-292

Miad Moarref,
 Hassan Sayyaadi, Sharif Univ. of Tech., Iran

14:00-14:15

Genetic Particle Swarm Optimization Based on Multiagent Model for Combinatorial Optimization Problem pp.293-297

Yalan Zhou,
 Jiahai Wang
 Jian Yin, Sun Yat-sen Univ., China

14:15-14:30

Improving the 3PLM-Based Computerized Adaptive Testing System with Multi-Agent Item Bank pp.298-303

Yan Cheng,
 Wei-Sheng Xu,
 You-Ling Yu, Tongji Univ., China

14:30-14:45

Product Configuration on the Semantic Web Using Multi-Agent pp.304-309

Xuegong Ding, Hangzhou Vocational and Technical College, China

14:45-15:00

The Consensus Protocol for Multi-agent Systems Based on the Algebraic Connectivity pp.310-313

Fuxiao Tan,
 Xinping Guan, Yanshan Univ. China
 Derong Liu, Univ. of Illinois at Chicago, USA

SunA05 (Room: Sydney)**Networked Control**

Chair: Zhiqun Wang, Nanjing Univ. of Sci. & Tech., China
 Co-Chair: Xuemin Chen, Texas Southern Univ., USA

13:30-13:45

Design and Implementation of Polynomial Predictive Filtering Based Real-time Networked Control System pp.314-318

Jin-nan Dong,
 Gui-he Qin, Jilin Univ., China

13:45-14:00

Fault Tolerant Control of Networked Control Systems Based on MPC pp.319-324

Changqing Lin,
 Zong Qun, Tianjin Univ., China

14:00-14:15

Fault-tolerant Control of Networked Control System with Packet Dropout and Transmission Delays pp.325-329

He Huang,
 Xiaodong Han,
 Xiaopeng Ji
 Zhiqun Wang, Nanjing Univ. of Science and Tech., China

14:15-14:30

Filtering for Nonlinear Discrete-Time Networked Control Systems with Incomplete Measurements and Stochastic Disturbances pp.330-334

Guoliang Wei,
 Zidong Wang,
 Huisheng Shu,
 Xiao He, Donghua Univ., China

14:30-14:45

Design of a Networked Control System for Biomimetic Robot Fish pp.335-340

Xiang Dong,
 Shuo Wang,
 Zhiqiang Cao
 Min Tan, Chinese Academy of Sciences

14:45-15:00

Stochastic Communication Logic for Networked Control Systems pp.341-345

Lian-Kun Sun,
 Qun-Zong,
 Wen-Jing Liu, Tianjin Univ., China

SunA06 (Room: Osaka)**Neural Networks 1**

Chair: Daniel Patiño, Univ. Nacional de San Juan, Argentina
 Co-Chair: Yuming Bo, Nanjing Univ. of Sci. & Tech., China

13:30-13:45

Application of Wavelet Neural Network to Initial Alignment of Strapdown Inertial Navigation System pp.346-350

Di Liu,
 Yuming Bo,
 Panlong Wu,
 Gaopeng Zhao, Nanjing Univ. of Science and Tech., China

13:45-14:00

Epileptic Seizures Predicted by Modified Particle Filters pp.351-356

Derong Liu,
 Zhongyu Pang, Univ. of Illinois, USA

14:00-14:15

Neural Network-Based Irrigation Control for Precision Agriculture pp.357-362

Flavio Capraro,
Daniel Patiño,
Santiago Tosetti, Univ. Nacional de San Juan, Argentina
Carlos Schugurensky

14:15-14:30

Neural Networks Hammerstein Model Identification Based On Particle Swarm Optimization pp.363-367

R. Paravi Torghabeh
H.Khaloozadeh, K.N.Toosi Univ. of Tech. Iran

14:30-14:45

Neuron Adaptive and Neural Network Based on Gradient Descent Searching Algorithm for Diagonalization of Relative Gain Sensitivity Matrix Decouple Control for MIMO System pp. 368-373

Geng Liang, North China Electric Power Univ

14:45-15:00

New SISO and MIMO Adaptive Generalized Predictive Controllers based on Self-Organizing RBF Neural Networks pp.374-379

A. Sabet Kamalabady,
K. Salahshoor, Petroleum Univ. of Tech., Iran

15:30 - 18:00, Sunday, April 6

Interactive Section A (Gallery, 3rd Floor)

Obstacle Forbidden Zone Based Multi-robot Motion Planning in Unknown Environments pp. 380-384

Haoshui Zhang,
Zhiqiang Cao,
Chao Zhou,
Min Tan, Chinese Academy of Sciences, China

Network Partition for Distributed Reactive Power Optimization in Power Systems pp. 385-388

Zhongxu Li,
Yutian Liu,
Rushui Liu,
Xinsheng Niu, Shandong University, China

Keyword Indexing System with HowNet and PageRank pp.389-393

Jinghua Wang,
Jianyi Liu,
Cong Wang,
Ping Zhang, Beijing Univ of Posts & Telecom, China

A Neural Network Model to Predict Initial Return of Chinese SMEs Stock Market Initial Public Offerings pp.394-398

Dan Meng, Southwestern Univ of Finance and Eco, China

An Enhanced Structure Based on Standard ART-2 Neural Network pp.399-401

Dong Qiu, Jilin University, China
Guoli Gao,
Hongjun Chen, Changchun University of Technology, China

Sense Limitedly, Interact Locally: the Control Strategy for Swarm Robots Search pp.402-407

Songdong Xue, Lanzhou Univ of Tech., China
Jianchao Zeng, Taiyuan Univ of Sci and Tech., China

Evolutionary Algorithms for Multiple Allocation Hub Set Covering Problem pp.408-411

Kerui Weng, China University of Geosciences
Yijuan Wang, South-Central Univ for Nationalities, China

The Research of Gateway Discovery and Selection Schemes for Connecting of MANET and Internet pp.412-417

Rui Xu,
Weihua Li, Northwestern Polytechnical University, China
You Li
Huasheng Chen

Gait Recognition Using Zernike Moments and BP Neural Network pp.418-423

Degui Xiao,
Lei Yang, Hunan University, China

Fuzzy Immune Self-Regulating PID Control Based on Modified Smith Predictor for Networked Control Systems pp.424-428

F. Du,
Q. Q. Qian, Southwest Jiaotong University, China

Self-similarity Research on Scale-free Networks pp.429-432

Shaohua Tao,
Shuang Wang, Xu Chang Univ, China
Yonghong Jiang, South-Central Univ for Nationalities, China
Longquan Zhu, Central Normal Univ, China

Interactive Software and Hardware Faults Diagnosis Based on Negative Selection Algorithm pp.433-437

Zhaoxiang Yi,
Xiaodong Mu,
Li Zhang,
Xiongmei Zhang, Xi'an Res. Institute of High Tech., China

New Result on Network of Neurons with Distributed Delay pp.438-441

Mei-Lan Tang,
Xin-Ge Liu, Central South University, China

An Improved KNN Algorithm of Intelligent Built-in Test pp.442-445

Dongchao Ji,
Bifeng Song,
Fei Han, Northwestern Polytechnical University, China

The Research on Business Continuity Planning of E-government Based on Information Security Risk Management pp.446-450

Wenxin Xiang,
Zhaoyu Zhang, Soochow University, China
Yinghai Wang, Suzhou Industrial Park Institute of Vocational Technology, China

A Fiber-sensor-based Long-distance Safety Monitoring System for Buried Oil Pipeline pp.451-456

Li Wang,
Yao-Hui Wang,
Xin-Lu Xiao,
Hu Yan,
Guang-Shun Shi, Nankai University, China
Qing-Ren Wang

A New Consistency Maintenance Algorithm based on Prediction and Compensation Scheme in CVE Systems pp.457-461

Xiaomei Hu,
Wenhua Zhu,
Tao Yu, Shanghai University, China

A New Color Pattern Recognition Algorithm Based on Quaternion Correlation pp.462-466

Qifeng Qi,
Yueming Hu,
Chaoyang Zhang, South China Univ. of Tech.

Robust Tolerant Control for a Class of Nonlinear Systems with Uncertainties and Input Time Delays Based on T-S Fuzzy Mode pp.467-471

Zuoyou Yin, Bohai University, China
Huaguang Zhang, Northeastern University, China

Boxed Safe Ambients with Password and Application on the Internet pp.472-477

Hua Jiang,
Xinxing Tan, Shaoguan University, China
Xiang Li, Guizhou University, China

Experiment and Simulation of Working Memory in Neuronal Microcircuitry pp.478-481

Huaiyang Wang, Ocean University of China
Wenjun Gao, Drexel University, U.S.A

A New Distributed Optimal Utility Max-Min Fair Resource Allocation pp.482-487

Jian Zhao,
Danni Song,
Qiang Zhang,
Jintao Meng, Central China Normal University

Defending Reputation System against False Recommendation in Mobile Ad Hoc Network pp.488-493

Fei Wang,
Yijun Mo,
Benxiong Huang, Huazhong Univ of Sci and Tech., China

An Approach to Multi-criteria Group Decision Making with Linguistic Preference Information pp.494-497

Quan Li, North China Electric Power University

Multiclass Least Squares Wavelet Support Vector Machines pp.498-502

Yongzhong Xing,
Xiaobei Wu,
Zhiliang Xu, Nanjing Univ of Sci and Tech., China

Detection of Grey Human Face Based on Digital Elevation Models pp.503-506

Mingjun Liu,
Yanbin Han,
Jinping Li,
Xiyuan Peng, University of Jinan, China

A New Approach to Solve a Class of Continuous-Time Nonlinear Quadratic Zero-Sum Game Using ADP pp.507-512

Qinglai Wei,
Huaguang Zhang, Northeastern University, China

An Efficient Proxy Signature Scheme with Full-delegation pp.513-518

Jianhong Zhang,
Cheng Ji, North China University of Technology

Channel Estimation in Correlated Channel for 802.11n System pp.519-522

Weiqian Weng,
Yuanxin Xu,
Kuang Wang, Zhejiang University, China

Sampling Clock Offset Estimation Algorithm Based on IEEE 802.11n pp.523-527

Yuanxin Xu,
Ling Dong,
Cheng Zhang, Zhejiang University, China

An Event Detection Algorithm Based on Improved STC pp.528-532

Li-Qing Qiu,
Bin-Pang,
Li-Ping Zhao, Beihang University, China

The Study and Analysis of Joint Adaptive Clock Recovery Mechanism for TDMoIP pp.533-538

Shuai Zhu,
Yuanxin Xu,
Jie Zhang,
Yang Wang, Zhejiang University, China

Grading of Flue-cured Tobacco Leaves Based on FCE pp.539-542

Fan Zhang,
Yunzhi Cheng, Henan University, China

The Research of Movement Control Policy on Tiered Mobile Network pp.543-547

Ya-li Peng, Jiangxi Normal University, China
Yang Li, Hangzhou Normal University, China
Xia-ling Zeng,
Liang Zhang, Hangzhou Normal University, China
Min Yu, Jiangxi Normal University, China

Development of Flexible Neural Microelectrode Arrays Based on Parylene for Retinal Prosthesis pp.548-551

Yumei Xing,
Chun Hui,
Yibo Wu,
Ailan Xu, Shanghai Jiaotong University, China
Gang Li,
Jianlong Zhao, Chinese Academy of Sciences

Qiushi Ren, Shanghai Jiaotong University, China

Regression Analysis of Interval Data Based on Error Theory
pp.552-555

Jun-peng Guo,
Wen-hua Li, Tianjin University, China

A Navigation Simulation System of Lunar Rover pp.556-561

Ji Liu,
Yuechao Wang,
Chuan Zhou,
Yanfeng Geng,
Yang Cong, Chinese Academy of Sciences

The Application of Structural Analysis in Knowledge
Acquisition of Chinese Medicine pp.562-566

Dongmei Ai,
Ping Shan,
Dezheng Zhang,
Yumei Fan, Univ of Sci and Tech., China

The Current Status and Development of Pattern Recognition
Diagnostic Methods Based on Medical Imaging pp.567-572

Guowei Yang,
Xiao Yu,
Xiaodong Zhuang, Qingdao University, China

Decision-Improved Support Vector Machine and its
Application pp.573-577

G. J. Liu,
X. M. Liu,
Y. Zhang,
J. Qiu, University of Defense Technology, China

Reconfigurable Business Process Server for RFID pp.578-582

Jue Wu,
Dong Wang, Shanghai Jiao Tong University, China

A New SPN Structure for Block Ciphers pp.583-586

Lingguo Cui, Beijing Institute of Technology, China
Liyang Xu, Qingdao University, China
Yong Wang, Beijing Institute of Technology, China

Ontology Mapping Based on Conditional Information Quantity
pp.587-591

Zhiwei Zhang,
Dezhi Xu,
Tian Zhang, Central South University, China

Analysis of Mutual Coupling Effects on Channel Capacity of
MIMO Systems pp.592-595

Li Hong,
Zhaozhi Gu,
Junfei Ma,
Li ShuRong, China University of Petroleum,
Jiang Ze, Chongqing Univ of Posts and Telecom, China
Zhou Zheng, Beijing Univ of Posts and Telecom, China

Building QKD Networks Based On a Novel QKD Scheme
pp.596-601

Fang Song,
Liusheng Huang,
Wei Yang,
Kan Yang, University of Science and Technology of China

One Class Support Vector Machines for Distinguishing
Photographs and Graphics pp.602-607

Huan Xu,
De-Shuang Huang, Chinese Academy of Sciences

Performance of Neural Networks in Stepping-Stone Intrusion
Detection pp.608-613

Han-Ching Wu,
Shou-Hsuan Stephen Huang, University of Houston, U.S.A

Traffic Jam Detection Based on Corner Feature of
Background Scene In Video-Based ITS pp.614-619

Lei Xie,
Qing Wu,
Xiumin Chu,
Jun Wang,
Ping Cao, Wuhan University of Technology, China

Low Cost Minimal Mutual Authentication Protocol for RFID
pp.620-624

Xiang Zhang,
George Baciu, Hong Kong Polytechnic University

Forgery-location highway monitoring system based on video
watermarking pp.625-629

Yuxin Zhao,
Guangjie Liu,
Yuewei Dai,
Zhiquan Wang,
Ming Bao, Nanjing Univ. of Sci and Tech., China

State Information-based Ant Colony Clustering Algorithm
pp.630-635

Jie Shen,
Kun He,
Liu-hua Wei,
Lei Bi,
Rong-shuang Sun,
Fa-yan Xu, Yangzhou University, China

Utility Presentation in Destination Decision System
pp.636-641

Cong Wang
Chunhua Wu, Beijing Univ of Posts and Telecom, China

A MASDCW Model about Multi-agent Application pp.642-647

Xiaobo Zhang,
Ping Tang,
Lianglun Cheng, Guangdong Univ of Tech., China

A Stochastic Game Theoretic Approach to Attack Prediction
and Optimal Active Defense Strategy Decision pp.648-653

Wei Jiang,
Zhi-hong Tian,
Hong-li Zhang, Harbin Institute of Technology, China
Xin-fang Song, Beijing Jingbei Vocational Campus, China

Modeling Nonlinear Manifolds with Mixtures of Localized
Principal Subspaces under a Self-Organizing Framework
pp.654-659

Huicheng Zheng,
Wei Shen,
Qionghai Dai, Sun Yat-sen University, China
Sanqing Hu, Mayo Clinic College of Medicine, USA

From Models to Code: Automatic Development Process for Embedded Control System pp.660-665

Zhaogang Shu,
Di Li,
Yueming Hu,
Feng Ye,
Suhua Xiao,
Jiafu Wan, South China University of Technology

8:30 - 12:00, Monday, April 7

MonM01 (Room: Beijing)

Plenary Lecture 1

Chair: Tianyou Chai, Northeastern Univ., China

08:30 - 09:30

Sensing and Control over Heterogeneous Networks with Limited Transmission

Tamer Basar, Univ. of Illinois at Urbana-Champaign, USA

MonM02 (Room: Beijing)

Plenary Lecture 2

Chair: Derong Liu, Univ. of Illinois at Chicago, USA

9:30 - 10:30

Multi-Agent Systems with Local Rules: Towards a Theory of Analysis and Control

Lei Guo, Chinese Academy of Sciences

MonM03 (Room: Beijing)

Plenary Lecture 3

Chair: Jiacun Wang, Monmouth Univ., USA

11:00 - 12:00

Petri Nets

MengChu Zhou, New Jersey Institute of Technology, USA

13:30 - 15:00, Monday, April 7

MonA01 (Room: Hong Kong)

Control Theory and Application 3

Chair: Wen-Hua Chen, Loughborough University, UK

Co-Chair: Guoqin Gao, Jiangsu Univ., China

13:30-13:45

Optimal Coordination of Variable Speed Control and Ramp Metering Based on Stackelberg Game pp. 666-670

Zhenlong Li,
Liquan Fan, Beijing Univ. of Tech., China

13:45-14:00

Output Feedback Satisfactory Fault-Tolerant Control of Uncertain Linear Discrete-Time Systems pp.671-676

Xiaodong Han,
He Huang,
Xiaopeng Ji,
Zhiquan Wang, Nanjing Univ. of Sci. and Tech., China

14:00-14:15

Parallel Model Predictive Control of Nonlinear Time-delay Systems Based on Recurrent Neural Network pp.677-680

Dongqing Wang
Shuhua Xu, Qingdao Univ., China

14:15-14:30

Prediction of Abnormal Situation in Nonlinear Systems Using EKF pp.681-686

E. Zamanizadeh,
K. Salahshoor,
Y. S. Manjili, Petroleum Univ of Tech., Iran

14:30-14:45

Q-Learning for Adaptive Traffic Signal Control Based on Delay Minimization Strategy pp.687-691

Shoufeng Lu,
Ximin Liu, Changsha Univ. of Sci. & Tech., China
Shiqiang Dai, Shanghai Univ., China

14:45-15:00

Regulation of Magnetically Actuated Satellites using Model Predictive Control with Disturbance Modelling pp.692-697

Mark Wood
Wen-Hua Chen, Loughborough University, UK

MonA02 (Room: Seoul)

Image Processing 1

Chair: Jianyu Wang, Nanjing Univ. of Sci. and Tech., China
Co-Chair: Xiaojing Zhou, Southeast University, China

13:30-13:45

A New Image Edge Detection Algorithm Based on Measuring of Medium Truth Scale pp.698-703

Ning-ning Zhou, Nanjing Univ of Posts and Telecom., China
Zheng-xu Zhao, Univ. of Derby, UK
Long Hong,
Yu-long Deng, Nanjing Univ. of Posts and Telecom., China

13:45-14:00

A Self-adapting Dual-threshold Method for Video Shot Transition Detection pp.704-707

Jianyu Wang,
Wen Luo, Nanjing Univ. of Sci. and Tech., China

14:00-14:15

A Steady Corner Detection of Gray Level Images Based on Improved Harris Algorithm pp.708-713

Yuran Liu,
Mingliang Hou,
Xuejun Rao,
Yudong Zhang, Institute of Optics and Electronics, China

14:15-14:30

Adaptive Frequency Coefficient Suppression for ROI-Based H.264/AVC Video Coding pp.714-718

YaYu Zheng,
Xiang Tian,
YaoWu Chen, Zhejiang Univ., China

14:30-14:45

Construction of 3D Virtual Humans from 2D Images pp.719-724

Xiaojing Zhou, Southeast University, China
Zhengxu Zhao, University of Derby, UK

14:45-15:00

Face Recognition Assisted With 3D Face Model pp.725-730

Chengzhang Wang,
Baocai Yin,
Yanfeng Sun, Beijing Univ. of Tech., China
Xiaoming Bai, Capital Univ. of Economics and Bus., China

MonA03 (Room: Taipei)

Special Session:

New Ideas and New Challenges for Business

Chair: Tong Sun, Xerox Research Center at Webster, USA
Co-Chair: S. Masoud Sadjadi, Florida Int'l Univ, USA

13:30-13:45

A Low-Cost Model-based Capacity Analysis in Production Environments pp.731-735

Hua Liu,
Tong Sun, Xerox Research Center at Webster, U.S.A

13:45-14:00

A Novel RS+Convolutional Concatenated Code in VHF Communication System pp.736-738

Mingxin Nie,
Peng Dai, School of Information Engineering, China

14:00-14:15

A Self-Configuring Communication Virtual Machine pp.739-744

S. Masoud Sadjadi ,
Selim Kalayci ,
Yi Deng, Florida International Univ., U.S.A

14:15-14:30

Bridge the gap between syndrome in Traditional Chinese Medicine and proteome in western medicine by unsupervised pattern discovery algorithm pp.745-750

Wei Wang,
Huihui Zhao, Beijing Univ. of Chinese Medicine, China
Jianxin Chen,
Jing Chen,
Guangcheng Xi, Chinese Academy of Sciences, China

14:30-14:45

Intelligent Multilingual Software Testing Tool pp.751-755

Xin Guo,
William Tay,
Tong Sun, Xerox Corporation, U.S.A
Rodrigo Andres Urra, Rochester Institute of Tech., U.S.A

14:45-15:00

Towards an Optimal Information Security Investment Strategy pp.756-761

Zikai Wang,
Haitao Song, Shanghai Jiao Tong Univ., China

MonA04 (Room: Bangkok)

Novel System Design and Development

Chair: Ying Tang, Rowan University, U.S.A
Co-Chair: Sarah Ostadabbas, Sharif Univ. of Tech., Iran

13:30-13:45

A New Neural Network Based FOPID Controller pp.762-767

Naser Sadati,
Alireza Ghaffarkhah,
Sarah Ostadabbas, Sharif Univ. of Tech., Iran

13:45-14:00

An Adaptive Network Node Architecture for Evolutionary Networks pp.768-773

Tao Liu,
Depei Qian,
Rui Wang
Ying He, Beihang Univ., China

14:00-14:15

An Integrated Design for Human-in-the-Loop Disassembly pp.774-779

Ying Tang,
David E. Grochowski, Rowan University, U.S.A

14:15-14:30

Coal Mine Detect and Rescue Robot Design and Research
pp.780-785

Junyao Gao,
Xueshan Gao,
Wei Zhu,
Jianguo Zhu,
Boyu Wei, Beijing Institute of Technology, China

14:30-14:45

Design of an IPv4/IPv6 Translator Based on SOPC Technolog
pp.786-790

Wai-xi Liu, Guangzhou Univ., China
Run-hua Tang, Guangdong Food and Drug Vocational
College, China
Hui Li, Peking Univ., China
Xiao Hu, Guangzhou Univ., China

14:45-15:00

*Development of Trip Planning Systems on Public Transit in
Taiwan* pp.791-795

Jau-Ming Su,
Chih-Hung Chang,
Wen-Chi Ho, Chung Hua University, Taiwan

MonA05 (Room: Sydney)

Pattern Recognition

Chair: De-An Zhao, Jiangsu Univ., China
Co-Chair: Zhixiong Chen, Mercy College, USA

13:30-13:45

*Comparison of Algorithms for Speaker Identification under
Adverse Far-Field Recording Conditions with Extremely Short
Utterances* pp.796-801

Hao Tang, Univ. of Illinois at Urbana-Champaign, USA
Zhixiong Chen, Mercy College, USA
Thomas S. Huang, Univ. of Illinois, USA

13:45-14:00

Fast Dynamic Pattern Matching for Deep Packet Inspection
pp.802-807

Kefu Xu,
Deyu Qi,
Zhengping Qian,
Weiping Zheng, South China Univ. of Tech., China

14:00-14:15

*Identification Of Grain Mildewing With ANN Pattern
Recognition Software Based On VB And Matlab* pp.808-811

De-An Zhao,
Tian-Hong Pan,
Jian-Yun Zhu,
Qing Wang, Jiangsu Univ., China

14:15-14:30

Improving Wu-Manber: A Multi-pattern Matching Algorithm
pp.812-817

Chen Zhen, Jilin Univ., China
Wu Di, CAS, China

14:30-14:45

*Personal Name Recognition Based on Conditional Random
Fields* pp.818-822

Suxiang Zhang, North China Electric Power Univ., China
Suxian Zhang, Hebei Univ., China

14:45-15:00

Symbolic representation of Kannada characters for recognition
pp.823-826

Vikram T N,
Chidananda Gowda K,
Shalini R Urs, Int'l School of Inform. Management, India

MonA06 (Room: Osaka)

Special Session:

Recurrent Neural Networks

Chair: Yunong Zhang, SunYat-Sen Univ., China
Co-Chair: Tung-Yi Chou, Feng Chia University, Taiwan

13:30-13:45

Analysis and Robust Design for Illusion CNNs pp.827-831

Weidong Li
Lequan Min, Univ. of Science and Tech. Beijing, China

13:45-14:00

*Common Nature of Learning Exemplified by BP and Hopfield
Neural Networks for Solving Online a System of
Linear Equations* pp.832-836

Yunong Zhang,
Zhan Li,
Ke Chen,
Binghuang Cai, SunYat-Sen Univ., China

14:00-14:15

*Evolutionary Diagonal Recurrent Neural Network for
Nonlinear Dynamic System Identification* pp.837-841

Yuqiang Mu,
Andong Sheng
Zhi Guo, Nanjing Univ. of Science & Tech., China

14:15-14:30

*Genetic Neural Network and Its Application in Recognition of
Tire Code* pp.842-846

Jun Sun,
Yinghai Wang,
Tianhong Pan, Jiangsu Univ., China

14:30-14:45

*Hybrid TDOA/AOA Mobile User Location with Artificial
Neural Networks* pp.847-852

Hsin-Yuan Chen,
Tung-Yi Chou, Feng Chia University, Taiwan

14:45-15:00

Multiple Model Predictive Control for Water Management in PEMFC Based on Recurrent Neural Network Optimization pp.853-858

Liyan Zhang,
Mu Pan,
Shuhai Quan, Wuhan Univ. of Tech., China

15:30 - 17:00, Monday, April 7

MonE01 (Room: Hong Kong) Control Theory and Application 4

Chair: Zeng-Guang Hou, Chinese Academy of Sciences
Co-Chair: Huaguang Zhang, Northeastern Univ., China

15:30-15:45

Robust Controller for Networked Control Systems Induced Noise and Long Transmission Delay pp.859-863

Zhanshan Zhao,
Qun Zong, Tianjin Univ., China
Jing Zhang, Tianjin Professional College, China

15:45-16:00

Robust Fuzzy Guaranteed Cost Control for Nonlinear Descriptor Systems with Time-Varying Delay pp.864-869

Weihua Tian, Shenyang Institute of Engineering, China
Huaguang Zhang, Northeastern Univ., China

16:00-16:15

UAV Path Generation, Path Following and Gimbal Control pp.870-873

Meirui Sun,
Rongming Zhu,
Xueguang Yang, Xidian Univ., China

16:15-16:30

Dual Heuristic Programming Based Neurocontroller for Vibration Isolation Control pp.874-879

Jia Ma,
Tao Yang,
Zeng-Guang Hou,
Min Tan, Chinese Academy of Sciences
Derong Liu, Univ. of Illinois, USA

16:30-16:45

Robust Variance Constrained Filter Design for Systems with Non-Gaussian Noises pp.880-884

Fuwen Yang,
Yongmin Li,
Xiaohui Liu, Brunel Univ.,UK

16:45-17:00

Vehicle Integrated Control-An Adaptive Optimal Approach to Distribution of Tire Forces pp.885-890

Ali Roshanbin,
Mahyar Naraghi, Amirkabir Univ. of Tech., Iran

MonE02 (Room: Seoul)

Image Processing 2

Chair: Zhengming Li, Jiangsu University, China
Co-Chair: Yinghai Wang, Suzhou Industrial Park Institute of Vocational Tech., China

15:30-15:45

H.264 video encoder implementation and optimization based on DM642 DSP pp.891-894

Zhengming Li,
Qiuyan Xing,
Xiaoyong Zhu, Jiangsu University, China

15:45-16:00

Hiding Facial Information in Color Image pp.895-899

Pham The Bao,
Nguyen Phuong Nam,
Hoang Nhat Quang, Univ. of Natural Sciences, Vietnam

16:00-16:15

Minimum Spanning Tree and Color Image Segmentation pp.900-904

Xue-xi Zhang,
Yi-min Yang, Guangdong Univ. of Tech., China

16:15-16:30

Nonintrusive Driver Fatigue Detection pp.905-910

Xiao Fan,
Baocai Yin,
Yanfeng Sun, Beijing Univ. of Tech., China

16:30-16:45

Optimum Decoder for Barni's Multiplicative Watermarking Based on Minimum Bayesian Risk Criterion pp.911-915

Yuewei Dai,
Jinwei Wang,
Guangjie Liu, Nanjing Univ. of Science and Tech., China

16:45-17:00

Research on the Method of Intelligent Robot Visual Recognition and Positioning pp.916-919

Yinghai Wang,
Xinghong Jiang, Suzhou Industrial Park Institute of Vocational Tech., China
Zhengming Li, Jiangsu Univ., China

MonE03 (Room: Taipei)

Robotics and Control

Chair: Guoqin Gao, Jiangsu University, China
Co-Chair: Daijin Kim, POSTECH, Korea

15:30-15:45

A Scalable Localization Algorithm for High Dimensional Features and Multi Robot Systems pp.920-925

Kanji Tanaka,
Eiji Kondo, Kyushu Univ., Japan

15:45-16:00

Bayesian Multidimensional Scaling for Multi-Robot Localization pp.926-931

Hongmo Je,
Daijin Kim, POSTECH, Korea

16:00-16:15

Design and Implementation of Control System for a Novel Parallel Robot Mechanism pp.932-937

Guoqin Gao,
Nianfa Yang, Jiangsu University, China

16:15-16:30

Nonlinear Flight Control Strategy for an Underactuated Quadrotor Aerial Robot pp.938-942

Ashfaq Ahmad Mian,
Daobo Wang, Nanjing Univ. of Aero. and Astro., China

16:30-16:45

The on-line coverage algorithm and localization technique of the intelligent cleaning robot pp.943-948

Jieru Chi,
Guowei Yang,
Jie Yang, Qingdao Univ., China

16:45-17:00

Vision Based Robot Programming pp.949-954

Bjørn Solvang,
Gabor Sziebig, Narvik Univ. College, Norway
Peter Korondi, Budapest Univ. of Tech. and Eco., Hungary

MonE04 (Room: Bangkok) Routing

Chair: Zhixiong Chen, Mercy College, USA
Co-Chair: Guoquan He, Xidian University, China

15:30-15:45

A Comprehensive Comparison of Routing Metrics for Wireless Mesh Networks pp.955-960

Hui Liu,
Wei Huang, Univ. of Electronic Sci. and Tech. of China
Xu Zhou, Xidian Univ., China
X. H. Wang, Swansea Univ., UK.

15:45-16:00

A Hybrid Routing Scheme for Wireless Sensor Networks pp.961-965

Guoquan He, Xidian University, China
Wei Zhang, Shenzhen Univ., China

16:00-16:15

A Power-aware Adaptive Dynamic Routing Scheme for Wireless Ad Hoc Networks pp.966-970

Li Zhang, Henan Polytechnic Univ., China
Zhen-Wei Yu,
Chun-Kai Zhang, China Univ. of Mining and Threshold Tech.
Yang Zhang, 1st Aeronautic Eng Inst of Air Force, China

16:15-16:30

An Extensible IPv6 Router Based On ForCES pp.971-976

Guolin Huang,
Weiming Wang, Zhejiang Gongshang Univ., China
Fengeng Jia, National Digital Switching System Engineering & Technological R&D Center, China

16:30-16:45

Energy-level based Routing Algorithm of Multi-sink Sensor Networks pp.977-982

Zhongbo Wu,
Chongsheng Zhang,
Hong Chen, Renmin Univ. of China, China

16:45-17:00

LAD: A Routing Algorithm to Prolong the Lifetime of Wireless Sensor Networks pp.983-987

Mohsen Mollanoori ,
Nasrollah M. Charkari, Tarbiat Modares Univ., Iran

MonE05 (Room: Sydney)

Target Tracking Systems

Chair: Majid Ahmadi, Univ. of Windsor, Canada
Co-Chair: Andong Sheng, Nanjing Univ of Sci. and Tech.

15:30-15:45

A New Motion Estimation Architecture for Block-Matching Algorithm pp.988-992

Lynn Yang
Majid Ahmadi, Univ. of Windsor, Canada

15:45-16:00

An Interacting Multiple Model Tracking Algorithm Based on Rigid-Body Model of Target pp.993-997

Yun-feng Zhou,
Gan-lin Shan,
Mei Wei, Mechanical Engineering College, China

16:00-16:15

Optimal Trajectory Characterization for a Pursuer Navigation Scheme pp.998-1003

Adrian N.Bishop,
Pubudu N.Pathirana, Deakin Univ., Australia

16:15-16:30

Sliding Mode Controller Design for an Aircraft Pitch Rate Track System pp.1004-1007

Hao Chen, Software School of Hunan Univ., China
Beiji Zou,
Haoyu Zhou, Central South Univ., China
Lili Pan, Hunan Univ., China

16:30-16:45

The Analysis of the Unobservable Criteria on the Single Platform Bearings-Only Target Tracking System pp.1008-1013

Zhigang Xu,
Andong Sheng,
Zhi Guo, Nanjing Univ. of Science and Tech., China

16:45-17:00

The Distribution Function of Opportunity-awaiting Time for Random System with Objective Domain pp.1014-1018

Jun Wang,
Zhijun Yao,
Zhi Guo,
Longjun Qian, Nanjing Univ. of Sci & Tech., China

MonE06 (Room: Osaka)

Wireless Sensor Networks 1

Chair: Gerald E. Sobelman, Univ. of Minnesota, USA
Co-Chair: Huaibei Zhou, Wuhan Univ., China

15:30-15:45

An Aggregator Deployment Protocol for Energy Conservation in Wireless Sensor Networks pp.1019-1024

Zuzhi Fan,
Yuanzhu Peter Chen,
Huaibei Zhou, Wuhan Univ., China

15:45-16:00

Cscan: A Correlation-based Scheduling Algorithm for Wireless Sensor Networks pp.1025-1030

Qingquan Zhang,
Yu Gu,
Tian He,
Gerald E. Sobelman, Univ. of Minnesota, U.S.A

16:00-16:15

Distributed Power Control Algorithm with Multi-QoS Constraints for Wireless Sensor Networks pp.1031-1036

Hai-Bo Yang, Zhejiang Shuren Univ., China
Wen-Yu Cai, Hangzhou Dianzi Univ., China

16:15-16:30

Energy-Efficient Module applied with Run Length Coding for Wireless Sensor Networks pp.1037-1041

Sangkyune Kim,
Jaehyung Park, Chonnam National Univ., Korea

16:30-16:45

Energy-Efficient with Optimal Balanced-Factor by Transmission Range Adjustment in WSNs pp.1042-1047

Qiang Zhang,
Erdun Zhao,
Jian Zhao, Central China Normal Univ., China

16:45-17:00

Hardware Supporting Project to Prolong the Lifetime of the Wireless Sensor Networks pp.1048-1052

Ben-chong Xu,
Jun-jie Chen,
Mei Huang, Southeast Univ., China

08:30 - 10:00, Tuesday, April 8

TueM01 (Room: Hong Kong)

Sensor Design and Application

Chair: Yong-min Yang, Nat'l Univ. of Defense Tech., China
Co-Chair: Xuemin Chen, Univ. of Houston, USA

8:30-8:45

Comparison of Sensor Faults Detection using Independent Component Analysis and Data Fusion based on Extended Kalman Filter pp.1053-1058

Mohsen Mosallaei,
Karim Salahshoor,
Karim Amanian, Petroleum Univ. of Tech., Iran

8:45-9:00

Multi-Sensor Data Fusion via Federated Dual-Band Filter pp.1059-1064

Li-Wei Fong, Yu-Da College of Business, Taiwan

9:00-9:15

Fault Diagnosis of Complex Systems Based on Multi-sensor and Multi-domain Knowledge Information Fusion pp.1065-1069

Yong-min Yang,
Zhe-xue Ge,
Yong-cheng Xu, National Univ. of Defense Tech., China

9:15-9:30

Radial Disturbance Effective on the Output Voltage Sensitivity of Piezoelectric Vibration Acceleration Sensor pp.1070-1073

Denghua Li,
Jingmin Gao,
Shuang Liang,
Jing Wang, Beijing Information Tech. Institute, China

9:30-9:45

Evaluating Innovative Sensors and Techniques for Measuring Traffic Loads pp.1074-1079

Xuemin Chen, Texas Southern Univ., USA
Lianhe Guo,
Jingyan Yu,
Jing Li,
Richard Liu, Univ. of Houston, USA

9:45-10:00

Unstructured environmental mapping using low cost sensors pp.1080-1085

Samuel B.Lazarus,
Antonios Tsourdos,
Rafal Zbikowski,
Brian A.White, Cranfield Univ., China

TueM02 (Room: Seoul)**System Performance and Optimization**

Chair: Zongxiao Yang, Henan Univ.of Sci and Tech. China
 Co-Chair: Zhongjun Wu, PLA Univ.of Sci & Tech. China

08:30-08:45

Building a High-performance Communication Framework for Network Isolation System pp.1086-1091

Haiyan Wu,
 Chengxiang Tan,
 Haihang Wang, Tongji Univ, China

08:45-09:00

Construction of Ontology-based Safety Assessment System for Power Plants pp.1092-1096

Zongxiao Yang,
 Chuanye Cheng,
 Zhiqiang Feng, Henan Univ.of Science and Tech, China

09:00-09:15

Performance Analytic Model for Authentication Mechanism pp.1097-1102

Wei Liu, PLA Univ.of Science and Tech., China
 Lin Yang, Institute of China Electronic System Eng.
 Quan-Lin Li, Tsinghua Univ, China
 Hao Dai,
 Bin Hou, Institute of China Electronic System Eng.

09:15-09:30

Spatial Spectrum Estimation Algorithm based on Minimum Redundancy Linear Array: A Performance Analysis pp.1103-1108

Lei Tu,
 Lu-lu Wu,
 Si-Qian Liu,
 Yu Liu, Huazhong Univ. of Sci. and Tech., China

09:30-09:45

Study on Risk-time-dependent Path Programming pp.1109-1113

Hongjun Zhang,
 Qinghua Pan,
 Zhongjun Wu, PLA Univ.of Sci & Tech., China

09:45-10:00

Wire-Sizing for Interconnect Performance Optimization Considering High Inductance Effects pp.1114-1118

Xiaopeng Ji,
 Long Ge,
 Xiaodong Han,
 ZhiquanWang, Nanjing Univ. of Science and Tech., China

TueM03 (Room: Taipei)**Security I**

Chair: Yonesy F. Nunez, Mercy College, USA
 Co-Chair: Deyi Li, Institute of Electronic System Eng, China

08:30-08:45

A Context-aware Computational Trust Model for Multi-agent Systems pp.1119-1124

Yong Wang, Beijing Institute of Tech., China
 Ming Li, MPS Info Classified Security Protection Evaluation Center, China
 Eamonn Dillon, Trinity College Dublin, Ireland
 Ling-guo Cui,
 Jing-jing Hu,
 Le-jian Liao, Beijing Institute of Tech., China

08:45-09:00

A New Subjective Trust Model Based on Cloud Model pp.1125-1130

Xiangyi Meng,
 Guangwei Zhang,
 Jianchu Kang,
 Hesong Li, Beihang Univ., China
 Deyi Li, Institute of Electronic System Eng, China

09:00-09:15

A WAW Model of P2P-based Anti-worm pp.1131-1136

Yu Yao,
 Liqiong Wu,
 Fuxiang Gao,
 Wei Yang,
 Ge Yu, Northeastern Univ., China

09:15-09:30

Design of a Dendritic Cells inspired Model Based on Danger Theory for Intrusion Detection System pp.1137-1141

Xue Li,
 Haidong Fu, Wuhan Univ. of Science and Tech., China
 Siliang Huang, Huazhong Univ. of Science & Tech., China

09:30-09:45

Intelligent Security Multi-agent Framework in Grid Computing pp.1142-1147

Mingchu Li,
 Yongrui Cui,
 Yizhi Ren,
 Yuan Tian, Dalian Univ. of Tech., China

09:45-10:00

Maximizing an Organization's Information Security Posture by Distributedly Assessing and Remediating System Vulnerabilities pp.1148-1152

Yonesy F. Nunez, Mercy College, U.S.A

TueM04 (Room: Bangkok)**Special Session:****Ubiquitous Computing and Networking**

Chair: Peng Liu, Hangzhou Dianzi Univ, China

Co-Chair: Liang He, East China Normal Univ.

08:30-08:45

An End-to-end QoS Frame in Multimedia Provision for Tight-coupled Interworking of IMS and WiMAX pp.1153-1157

Lin Ma,

Lanlan Rui, Beijing Univ. of Posts and Telecom, China

08:45-09:00

DESP-COM Model Based on Context-aware in Pervasive Computing pp.1158-1163

Ping Cai,

Liang He, East China Normal Univ., China

09:00-09:15

Program Sections Allocation to Scratchpad Memory based on Frequency Analysis pp.1164-1168

Bin Xie,

Qingsong Shi,

Tianzhou Chen

Feng Sha, Zhejiang Univ., China

09:15-09:30

Tracking and Predicting Moving Targets in Hierarchical Sensor Networks pp.1169-1173

Zhibo Wang,

Hongbin Li,

Xingfa Shen,

Xice Sun,

Zhi Wang, Zhejiang Univ., China

09:30-09:45

VSCF: A Vote-based Secure Cluster Formation Scheme pp.1174-1178

WenCheng Yang,

YiYing Zhang,

KeeBum Kim,

DongSub Kim,

MinYu Cui,

Ming Xue,

Myong-Soon Park, Korea Univ., Korea

09:45-10:00

Experimental Study of Energy Consumption in Direct Transmission and Multi-hop Transmission for Wireless Sensor Networks pp.1179-1184

Jin Wang,

Jinsung Cho,

Sungyoung Lee, Kyung Hee Univ., Korea

TueM05 (Room: Sydney)**Special Session:****Service Oriented Computing**

Chair: Jian Cao, Shanghai Jiaotong Univ, China

Co-Chair: Yuanqiang Huang, BeiHang Univ., China

08:30-08:45

Adaptive workflow based on SOA and its application in Tourism Information Change Management pp.1185-1189

Tao Hu,

Jianhua Li, Electro Info and Electri Eng College, China

Qingshan Wang, Tourism College of Hainan Univ., China

08:45-09:00

Design of a Sequential Tentative Hold Protocol for Efficient Coordination of Web Services Transaction pp.1190-1195

Kunyi Luo,

Yongjian Wang ,

Zhongzhi Luan,

Zhongxin Wu,

Bingheng Yan,

Yuanqiang Huang, BeiHang Univ., China

09:00-09:15

Multi-objective Optimization of Reverse Logistics Network Based on Random Weights and Genetic Algorithm pp.1196-1200

Yanchao Lu, Renmin Univ. of China

Pengchao Lu, Pipeline Research Institute of China

Litao Liang, Beijing Univ. of Posts and Telecom, China

09:15-09:30

ECA Rule based Agent for Business Process Management pp. 1201-1206

Haiyan Zhao, Univ of Shanghai for Sci and Tech., China

Jian Cao, Shanghai Jiaotong University, China

09:30-09:45

Selection of Logistics Service Provider Based on Analytic Network Process and VIKOR Algorithm pp.1207-1210

Lixin Dai,

Ying Liu,

Zhiguang Zhang, North China Electric Power Univ., China

09:45-10:00

Towards a Framework for Monitoring Grid Scientific Workflows pp.1211-1216

Wei Liu ,

Vitor Duarte,

José Cunha, CITI/DI –FCT/Universidade Nova de Lisboa

Tiejian Luo, Graduate Univ of Chinese Academy of Sci

TueM06 (Room: Osaka)**Special Session:****Humanized Systems 2**

Chair: Guowei Yang, QingdaoUniv., China

Co-Chair: Cong Wang, Beijing Univ. of Post and Telecom

08:30-08:45

Research on Text Network Representation pp.1217-1221

Jianyi Liu,
Jinghua Wang,
Cong Wang, Beijing Univ. of Posts & Telecom., China

08:45-09:00

A New Decision-Making Approach for C2C Electronic Trade
pp.1222-1226

Xu Wu,
Jingsha He,
Fei Xu, Beijing University of Technology, China

09:00-09:15

The Emergent Patterns of Artificial Ant Colony's Collective Behavior in Gray-Scale Images for Feature Extraction
pp.1227-1232

Xiaodong Zhuang,
Guowei Yang,
Dongqing Wang,
Liyang Xu, Qingdao University, China

09:15-09:30

On the use of the coulostatic method for the study of intelligent remote corrosion monitoring system
pp.1233-1237

Jieru Chi,
Guowei Yang,
Yongtao Zhao,
Huabo Liu,
Jun Yu, Qingdao University, China

09:30-09:45

CGSP-based Legacy Applications Execution and Coordination
pp.1238-1242

Yi Wang,
Jian Cao,
Minglu Li, Shanghai Jiaotong University, China

09:45-10:00

Current Status of SoftMan Research and Its Application in Publishing and Printing Industry pp.1243-1246

Shaozhong Cao, Beijing Institute of Graphic Comm., China
Guowei Yang, Qingdao University, China
Xuyan Tu, Univ. of Science and Technology Beijing, China

10:30 - 12:00, Tuesday, April 8

TueN01 (Room: Hong Kong) Wireless Sensor Networks 2

Chair: Huaizhong Li, Wenzhou Univ., China
Co-Chair: Fei-Yue Wang, Chinese Academy of Sciences

10:30-10:45

Intelligent Security System Based on Self-Organizing Wireless Sensor Networks pp.1247-1252

Liting Cao,
Jingwen Tian,
Nan Wu, Beijing Union Univ., China

10:45-11:00

Key Technologies of Passive Wireless Sensor Networks Based on Surface Acoustic Wave Resonators pp.1253-1258

Xiangwen Zhang, Guilin Univ. of Electronic Tech., China
Fei-Yue Wang, Chinese Academy of Sciences

11:00-11:15

KMSGC: A Key Management Scheme for Clustered Wireless Sensor Networks Based on Group-oriented Cryptography
pp.1259-1262

Yugeng Sun,
Juwei Zhang,
Hao Ji,
Ting Yang, Tianjin Univ., China

11:15-11:30

MotesArt: Wireless Sensor Network for Monitoring Relative Humidity and Temperature in an Art Gallery pp.1263-1268

Agnes Meiling C. Lee,
Chester T. Angeles,
Marc Caesar R. Talampas,
Luis G. Sison,
Maricor N. Soriano, Univ. of the Philippines

11:30-11:45

Multi-channel Seismic Data Synchronizing Acquisition System Based on Wireless Sensor Network pp.1269-1272

Jingwen Tian,
Meijuan Gao, Beijing Union Univ., China
Hao Zhou, Beijing Univ. of Chemical Tech., China

11:45-12:00

Multiple-Objective Fuzzy Decision Making Based Routing Protocol for Wireless Sensor Networks pp.1273-1278

GeXin Li,
LeiChun Wang,
Huaizhong Li, Wenzhou Univ., China

TueN02 (Room: Seoul)

Neural Networks 2

Chair: Zengguang Hou, Chinese Academy of Sciences
Co-Chair: Jianyu Zhao, Univ. of Jinan, China

10:30-10:45

Research on Fuzzy Neural Network Based on Lyapunov Stability Theory and its Application pp.1279-1283

Jun-fei Qiao,
Hong-gui Han,
Xiao-gang Ruan, Beijing Univ. of Tech., China

10:45-11:00

Network Anomaly Detection Using RBF Neural Network with Hybrid QPSO pp.1284-1287

Ruhui Ma,
Yuan Liu,

Xing Lin,
Zhang Wang, Jiangnan Univ., China

11:00-11:15

QoS Control of DRM System Based on Artificial Neural Network pp.1288-1293

Lingjun Yang,
Zhanxin Yang,
Rui Lv, Communication Univ. of China

11:15-11:30

Signal Recovery Using Neural Networks for DSP Based Infrared Gas Sensor pp.1294-1299

Fei Zhu,
Zize Liang,
Tao Yang,
Zengguang Hou, Chinese Academy of Sciences
Xiuqing Wang, Hebei Normal University, China

11:30-11:45

Nonlinear Calibration of pH Sensor Based on the Back-propagation Neural Network pp.1300-1304

Lei Shi,
Li Cai,
En Li,
Zize Liang,
Zengguang Hou, Chinese Academy of Sciences

11:45-12:00

Short-term Traffic Flow Forecasting Model of Elman Neural Network Based on Dissimilation Particle Swarm Optimization pp.1305-1309

Hui Gao,
Jianyu Zhao, Univ. of Jinan, China
Lei Jia, Shandong Univ., China

TueN03 (Room: Seoul)

Security 2

Chair: Yang Xu, Guizhou University, China
Co-Chair: Zhang Wang, Jiangnan Univ., China

10:30-10:45

On the Security of A Group Signature Scheme pp.1310-1314

Jianhong Zhang
Qin Geng, North China Univ of Tech, China

10:45-11:00

On the Security of two Authenticated Encryption Schemes pp.1315-1319

Jianhong Zhang,
Cheng Ji, North China University of Technology, China

11:00-11:15

Role of Information Security Risk Assessment in Establishing Electronic Archives Safeguard Systems pp. 1320-1325

Yinghai Wang, Suzhou Industrial Park Institute of Vocational Technology, China
Wenxin Xiang, Soochow University, China

11:15-11:30

Security analysis of routing protocol for MANET based on extended Rubin logic pp.1326-1331

Yang Xu, Guizhou University, China
Xiaoyao Xie, Key Lab of Info and Computing Sci of Guizhou Province, China

11:30-11:45

The Research of Security Asynchronous Web Services based on SOA Architecture pp.1332-1336

Yang Li, Hangzhou Normal University, China
Ya-li Peng, Jiangxi Normal University, China
Guo-hua Zhan,
Liang Zhang, Hangzhou Normal University, China

11:45-12:00

Full Service Hopping for Proactive Cyber-Defense pp.1337-1342

Leyi Shi, China University of Petroleum
Chunfu Jia, Nankai University, China
Shuwang Lu, Graduate School of CAS, China

TueN04 (Room: Bangkok)

Special Session:

Intelligent Multimedia Information Systems

Chair: Yu Cao, California State University, USA
Co-Chair: Atulya Velivelli, University of Illinois, USA

10:30-10:45

A novel approach to video transition detection based on a two-phase classification strategy pp.1343-1347

Shijin Li,
Lin Lin,
Xiaofang Li, Hohai University, China

10:45-11:00

An Innovative Tempo Model for Movie Content Analysis pp.1348-1352

Anan Liu,
Zhaoxuan Yang,
Jiapeng Wu, Tianjin University, China
Yongdong Zhang,
Jintao Li, ICT,CAS

11:00-11:15

Face Recognition Based on Possibilistic Partition and Fuzzy Integral pp.1353-1357

Xiaobin Wang,
Qiang Zhang,
Xiaopeng Wei,
Changjun Zhou, Dalian University, China

11:15-11:30

Mining the Royal Portrait Miniature for the Art Historical Context pp.1358-1361

Steve Read, University of California, USA
Hazel Antaramian-Hofman,
Yu Cao, California State University, USA

11:30-11:45

A Theoretic Framework for Object Class Tracking

pp.1362-1365

Yu Cao,
Steve Read,
Sachin Raka,
Revanth Nandamuri, California State University, USA

11:45-12:00

Automatic Video Annotation Using Multimodal Dirichlet Process Mixture Model

pp.1366-1371
Atulya Velivelli,
Thomas S. Huang, University of Illinois

TueN05 (Room: Sydney)

Image Processing 3

Chair: Yanfeng Sun, Beijing Univ. of Tech., China
Co-Chair: Chunguang Bai, Dalian Univ. of Tech., China

10:30-10:45

A Simple Architecture for Computing Orientation of a Chip in an Image

pp.1376-1380
Qifeng Qi,
Yueming Hu,
Xuehao He,
Chaoyang Zhang, South China University of Tech.

10:45-11:00

LNMF-based Image Reconstruction of Face Recognition

pp.1381-1384
Changjun Zhou,
Qiang Zhang,
Xiaopeng Wei,
Chunguang Bai, Dalian Univ. of Tech., China

11:00-11:15

Eyeglasses Eigenface Based Glasses-face Recognition

pp.1385-1390
CaiFang Song,
BaoCai Yin,
YanFeng Sun, Beijing Univ. of Tech., China

11:15-11:30

A New Wavelet-based Robust Watermarking for Digital Image

pp.1391-1394
Jun Yu,
Jie-ru Chi,
Xiao-dong Zhuang, Qingdao Univ., China

11:30-11:45

A Study on Designing Iris Recognition System Based on TMS320DM642

pp.1395-1399
ZhengmingLi,
Xiaoqin Zhu, Jiangsu Univ., China
Yinghai Wang, Suzhou Industrial Park Institute of Vocational Tech., China

11:45-12:00

A Fast Autoregression based Image Interpolation Method

pp.1400-1404

Zhe Wang, New Jersey Institute of Tech., USA
Jiefu Zhai, Thomson Inc, USA
Mengchu Zhou, New Jersey Institute of Tech., USA

TueN06 (Room: Osaka)

Networks and applications

Chair: Shuang-Hua Yang, Loughborough University, UK
Co-Chair: Ming Chen, PLA Univ. of Sci and Tech., China
10:30-10:45

An Approach to Model Normal Network Behaviors Based on Entire Network Packets

pp.1405-1408
Tie-shan Zhao, Xi-chang Satellite Launch Center, China
Zeng-zhi Li, Xi'an Jiaotong Univ., China
Ze-ming Wang,
Xiao-fen Lin, Xi-chang Satellite Launch Center, China

10:45-11:00

UWB Application for a Universal Wireless Networking Architecture in Mobile Healthcare

pp.1409-1412
Hongyan Tang, Univ. of Science and Tech. of China
Xinheng Wang, Swansea Univ., UK
Shiwen Yang,
Zaiping Nie, Univ. of Science and Tech. of China
Xu Zhou, Xidian Univ., China

11:00-11:15

Priority Checking RED for Improving QoS in IPv6

pp.1413-1418
Yunqiu Li,
Shuang-Hua Yang, Loughborough University, UK

11:15-11:30

Transparent Heterogeneous Networks for Remote Control of Home Environments

pp.1419-1424
Khusvinder. Gill,
Fang, Yao,
Shuang-Hua. Yang, Loughborough University, UK

11:30-11:45

Impact of Network Topology on Distance Prediction Accuracy

pp.1425-1429
Changyou Xing,
Ming Chen, PLA Univ. of Science and Tech., China

11:45-12:00

The Use of Ethernet for Single On-board Train Network

pp.1430-1434
M. Aziz,
B. Raouf,
N. Riad, American Univ., Egypt
R.M. Daoud, Universite de Valenciennes, France
H.M. Elsayed, Cairo Univ., Egypt

13:30 - 15:00, Tuesday, April 8

TueA01 (Room: Hong Kong)

Wireless Sensor Networks 3

Chair: Ping Guo, Beijing Normal Univ., China

Co-Chair: Jun-Zhao Sun, University of Oulu, Finland

13:30-13:45

Performance Optimization Based on NODE-RTI Model for Wireless Sensor Nodes pp.1435-1438

Chen Fang,

Hao Liu, Southeast Univ., China

13:45-14:00

Relative Localization Systems and Algorithms for Wireless Sensor Networks pp.1439-1444

Jun-jie Chen ,

Ben-chong Xu,

Li Ding, Southeast Univ., China

14:00-14:15

Sleep-supported and Cone-based Topology Control Method for Wireless Sensor Networks pp.1445-1448

Lin Wang,

Weiliang Zhao,

Yun Li,

Yi Qu,

Zhanjun Liu,

Qianbin Chen, Chongqing Univ. of Post & Telecom, China

14:15-14:30

The Research on Reliability of Wireless Sensors Network pp.1449-1452

Zhengming Li,

Baosen Liu,

Tianhong Pan, Jiangsu Univ., China

14:30-14:45

Trade-off Consideration in Query Processing for Wireless Sensor Networks pp.1453-1458

Jun-Zhao Sun, University of Oulu, Finland

14:45-15:00

Voronoi-Based Sleeping Conguration in Wireless Sensor Networks with Location Error pp.1459-1464

Xinyu Chen, Beijing Normal Univ., China

Michael R. Lyu, Chinese Univ. of Hong Kong

Ping Guo, Beijing Normal Univ., China

TueA02 (Room: Seoul)

Special Session:

Analysis of Neural Data

Chair: Sanqing Hu, Mayo Clinic College of Medicine, USA

Co-Chair: Guohai Liu, Jiangsu Univ., China

13:30-13:45

Comparison of PVC Arrhythmia Detection Via Neural Networks and ANFIS pp.1465-1470

Ali Gharaviri,

Asiyeh vosolipour,

Mohammad Teshnehlab,

Hamid A. Moghaddam, K.N.Toosi Univ. of Tech., Iran

13:45-14:00

Entropy Partition for Complex System and its Application in Neuro-Endocrine-Immune Data pp.1471-1475

Jing Chen,

Guangcheng Xi,

Jianxin Chen, Chinese Academy of Sciences

14:00-14:15

Experimental Research on Decoupling Control of Multi-motor Variable Frequency System Based on Neural Network

Generalized Inverse pp.1476-1479

Guohai Liu,

Pingyuan Liu,

Yue Shen,

Fuliang Wang,

Mei Kang, Jiangsu Univ., China

14:15-14:30

MATLAB Simulink Modeling and Simulation of Zhang Neural Network for Online Time-Varying Matrix Inversion

pp.1480-1485

Yunong Zhang,

Xiaojiao Guo,

Weimu Ma,

Ke Chen,

Binghuang Cai, SunYat-SenUniv., China

14:30-14:45

Removal of Scalp Reference Signal and Line Noise for Intracranial EEGs pp.1486-1491

Sanqing Hu, Mayo Clinic College of Medicine, USA

Gregory A. Worrell, Mayo Clinic, U.S.A

14:45-15:00

Stability Analysis for a Class of Nonlinear Neural Networks with Multiple Delays pp.1492-1495

Mei-Lan Tang,

Xin-Ge Liu, Central South Univ., China

TueA03 (Room: Taipei)

Special Session:

Biomedical Signal Analysis

Chair: Huiru Zheng, Univ. of Ulster, U.K

Co-Chair: Norman Black, Univ. of Ulster, U.K

13:30-13:45

A pageranking based method for identifying characteristic genes of a disease pp.1496-1499

Dang Thanh Hai, Vietnam National Univ., Viet Nam

Wonjun Lee, Korea Univ.

Ha Quang Thuy, Vietnam National Univ., Viet Nam

13:45-14:00

Circuit Design of the Artificial Anal Sphincter System Based on the Microchip PIC pp.1500-1504

Nianting Luo,
Guozheng Yan,
Hua Liu,
Peng Zan, Shanghai Jiaotong Univ., China

14:00-14:15

Human Activity Detection in Smart Home Environment with Self-Adaptive Neural Networks pp.1505-1510

Huiru Zheng,
Haiying Wang,
Norman Black, Univ. of Ulster, U.K

14:15-14:30

Multiple Sequence Alignment Based on Genetic Algorithms with Reserve Selection pp.1511-1516

Yang Chen,
Jinglu Hu,
Kotaro Hirasawa, Waseda Univ., Japan
Songnian Yu, Shanghai Univ., China

14:30-14:45

Neural Networks for Estimation of Hematocrit Density from Transduced Current Curve Patterns pp.1517-1520

Hieu Trung Huynh,
Yongwan Won,
Jung-ja Kim, Chonnam National Univ., Korea

14:45-15:00

Towards a Decision Support Personalised Self Management System for Chronic Conditions pp.1521-1524

H Zheng,
CD Nugent,
PJ McCullagh,
ND Black, Univ. of Ulster, UK
C Eccleston, Univ. of Bath, UK
D Bradley, Univ. of Abertay Dundee, UK
M Hawley,
S Brownahell, Sheffield Univ., UK
P Wright,
GA Mountain,
SJ Mawson, Sheffield Hallam Univ., UK

TueA04 (Room: Bangkok)

Special Session:

Collaborative Product Development

Chair: Jiun-Yan Shiau, Chung Yuan Christian Univ, Taiwan
Co-Chair: Xiangyang Li, Univ. of Michigan, USA

13:30-13:45

An Aspect Oriented Configuration Identification Model for Incremental Development pp.1525-1530

Jiun-Yan Shiau, Chung Yuan Christian University, Taiwan
Xiangyang Li, Univ. of Michigan - Dearborn, USA
Pei-Hua Tseng, Chung Yuan Christian University, Taiwan

13:45-14:00

Combination of TOPSIS and 0-1 Programming for Supplier Selection in Supply Chain Management pp.1531-1535

Wu Li,
Yonggang Chen,
Yingzi Fu, Hunan Institute of Science and Tech, China

14:00-14:15

Increasing Eco-efficiency through Holistic Green Supply Chain Management. pp.1536-1540

Wei Deng Solvang, Narvik Univ. College, Norway

14:15-14:30

Policy Gradient SMDP for Resource Allocation and Routing in Integrated Services Networks pp.1541-1546

Nguyen Hoang Viet,
Ngo Anh Vien,
Tae Choong Chung, KyungHee Univ., South Korea

14:30-14:45

VegRisk: A Decision Support System for Risk Management of Vegetable Supply Chain pp.1547-1552

Feng Xu,
Xiaoshuan Zhang,
Xiaomei Guo,
Zetian Fu, China Agricultural Univ.

14:45-15:00

Security Management Modeling in Collaborative Systems pp.1553-1558

Xiangyang Li, Univ. of Michigan, U.S.A
Jiun-Yan Shiau, Chung Yuan Christian Univ., Taiwan

TueA05 (Room: Sydney)

Web Services

Chair: Jian Cao, Shanghai Jiaotong Univ, China
Co-Chair: Hai-Yin Xu, Bournemouth Univ., UK

13:30-13:45

A Feasible Strategy for Reachability Testing of Internet-Based Concurrent Programs pp.1559-1564

Fangli Pu, Huazhong Univ. of Science and Tech., China
Hai-Yin Xu, Bournemouth Univ., UK

13:45-14:00

A Web Service Matchmaking Algorithm Based on an Extended QoS Model pp.1565-1570

Rong Hu,
Jian-xun Liu,
Zhu-hua Liao,
Jie Liu, Hunan Univ. of Science and Tech., China

14:00-14:15

Describing and Verifying Web Service by CCS on a Case Study pp.1571-1576

Li Bao,
Weishi Zhang,
Xiuguo Zhang, Dalian Maritime Univ., China

14:15-14:30

MCBDist: A Novel Markov-Chain-Based Measure of Distance among Webpages pp.1577-1582

Zhi Xiong,
Guanguan Wu, Shantou Univ., China

14:30-14:45

An Agent-Based Web Service Workflow Model pp.1583-1588

Hongxia Tong,
Jian Cao,
Shensheng Zhang, Shanghai Jiao Tong Univ., China

14:45-15:00

Efficient, Accurate Internet Traffic Classification using Discretization in Naive Bayes pp.1589-1592

Yuhai Liu,
Zhiqiang Li, Alcatel-Lucent Technologies, China
Shanqing Guo, Shandong Univ., China
Taiming Feng, Iowa State Univ., U.S.A

TueA06 (Room: Osaka)

Special Session:

Computational Intelligence in Robotics

Chair: Qi Luo, Wuhan Institute of technology, China
Co-Chair: Prabu D, Wipro Technologies, India

13:30-13:45

Path Planning Based on Ceiling Light Landmarks for a Mobile Robot pp.1593-1598

H. B. Wang,
L. L.Zhang, Yanshan Univ., China

13:45-14:00

A Quantum-inspired Q-learning Algorithm for Indoor Robot Navigation pp.1599-1603

Chunlin Chen,
Pei Yang,
Xianzhong Zhou, School of Management and Eng, China
Daoyi Dong, Chinese Academy of Sciences

14:00-14:15

Controller Design and Experimental analyses of Two-Robot Coordination System pp.1604-1608

Jin He, Yunnan Nationalities Univ., China
Qingxin Meng, Harbin Engineering Univ., China
Chunfeng Lv, Yunnan Nationalities Univ., China

14:15-14:30

Dynamic Control of Three-Link SCARA Manipulator using Adaptive Neuro Fuzzy Inference System pp.1609-1614

Prabu D, Wipro Technologies, PTG Lab (R&D), India
Surendra Kumar,
Rajendra Prasad, IIT Roorkee, India

14:30-14:45

Enhancing flexibility of belief representations pp.1615-1620

Damith Senaratne,
Chulantha Kulasekera, Univ. of Moratuwa, Sri Lanka

14:45-15:00

Product Platform Planning: an approach using Genetic Algorithm pp.1621-1625

Haitao Song,
Ying Zhang,
Yunli, Song,
Zikai Wang,
Lu Zhen, Shanghai JiaoTong Univ.,China

15:30 - 18:00, Tuesday, April 8

Interactive Section B (Gallery, 3rd Floor)

Design of Rail Surface Crack-detecting System Based on Linear CCD Sensor pp.1626-1631

Jian-hua Qiao,
Lin-sheng Li,
Jing-gang Zhang, Taiyuan Univ of Sc & Tech., China

URL Assignment Algorithm of Crawler in Distributed System Based on Hash pp.1632-1635

Yuan Wan,
Hengqing Tong, Wuhan University of Technology, China

A Study on Additional-signal-enhanced Stochastic Resonance in Detecting Weak Signals pp.1636-1640

M Chen,
N Q Hu,
G J Qin,
Y M Yang, National Univ of Defense Tech., China

An Alternative Choice of Scratch-Pad Memory for Energy Optimization in Embedded System pp.1641-1647

Ming Ling,
Yu Zhang, Southeast Univ., China
Lin Shen, Nanjing Univ. of Sci. and Tech., China

Safety Assessment Modelling Based on Recipe Engineering for Power Plants pp.1648-1653

Wei Li,
Mingchuan Zhang, Henan Univ. of Science and Tech., China
Zongxiao Yang, Henan Univ. of Science and Tech., China

Nonsampled Contourlet Transform for Texture Classifications using Support Vector Machines pp.1654-1657

Shutao Li,
Xinmin Fu,
Bin Yang, Hunan University, China

Robust Designs for Shadow Projection CNN pp.1658-1662

Weidong Li,
Lequan Min, University of Science and Tech, China

Exploring Knowledge Grid for Knowledge Supply in the Collaborative Design pp.1663-1667

Haitao Song,
Zikai Wang,
Yunli Song,
Ying Zhang,

- Lu Zhen, Shanghai Jiao Tong Univ., China
- Model Driven Data Service Development* pp. 1668-1673
Xiao-guang Zhang, Sybase Software (China) Co. Ltd
- A Service-oriented Integration Model of Knowledge and Business Processes* pp. 1674-1679
Jianmei Guo,
Yinglin Wang,
Xijuan Liu,
Hongxia Tong, Univ. of Shanghai for Sci. and Tech., China
- Computer Supported Collaborative Learning Framework for the Handicapped in Ubiquitous Computing Environment* pp.1680-1682
Peng Liu,
Guojun Dai, Hangzhou Dianzi University, China
- Self-revise Hierarchical Classifier Based on SMO Algorithm for Chinese Question Classification* pp.1683-1687
Bingjing Xu,
Yu Deng,
Jianyi Liu, Beijing Univ. of Posts and Telecom, China
- A Method Based on General Model Template for Audio Retrieval* pp.1688-1691
Xin He,
Ling Guo,
Jiayu Wang, Nanjing Univ of Sci and Tech, China
Xianzhong Zhou, Nanjing University, China
- A Clustering-Ensemble Approach Based on Average Mutual Information* pp.1692-1695
Zhizhou Kong,
Shenggang Yang, Hunan University, China
Zixing Cai,
Dong Gaun, Central South University
- Delay-dependent absolute stability of lur'e systems with interval time-varying delay* pp.1696-1699
Yonggang Chen,
Yanhui Zhang, Henan Institute of Engineering, China
Qingbo Li, Zhengzhou Univ. of Light Industry, China
- Algorithm Description of Generalized Binary Linked List* pp.1700-1704
Haishan Chen,
Yu Chen,
Beizhan Wang,
Fei Long, Xiamen University, China
- A Threshold Multi-secret Sharing Scheme* pp.1705-1707
Runhua Shi,
Liusheng Huang,
Yonglong Luo,
Zhong Hong, Univ. of Sci. and Tech. of China
- A Novel Speed Observer Based on Parameter-optimized MRAS for PMSMs* pp.1708-1713
Fu Zhou,
Jianguo Yang,
Beizhi Li, Donghua University, China
- Studies on Hierarchical Reinforcement Learning in Multi-Agent Environment* pp.1714-1720
Lasheng Yu,
Alonso Marin,
Fei Hong,
Jian Lin, Central South Univ., China
- Absolute Stability Analysis and Design of Fuzzy Control Systems* pp.1721-1725
Rongming Zhu, Xidian Univ, China
Meirui Sun, Northwestern Polytechnical Univ, China
Chao Shi, Xidian Univ, China
- A Domain Adaptive Ontology Learning Framework* pp.1726-1729
Xuejun Nie,
Jingli Zhou, Huazhong Univ of Sci. & Tech., China
- Optimization of Collaborative Spectrum Sensing for Cognitive Radio* pp.1730-1733
Li Hong,
Junfei Ma,
Shurong Li, China University of Petroleum
Fangmin Xu,
Zheng Zhou, Beijing Univ of Posts and Telecom, China
- Entropy-Based Complexity Analysis for Architecture of Information System* pp.1734-1738
Aimin Luo,
Li Huang,
Xueshan Luo, National Univ of Defense Tech, China
- Speech Information Hiding Method Based on Itakura-Saito Measure and Psychoacoustic Model* pp.1739-1742
Yin-Cheng Qi,
Hui Wang,
Jin-Sha Yuan, North China Electric Power University
- An Efficient Sequence Alignment Algorithm of Network Traffic* pp.1743-1746
Xinghui Wang,
Du Xu, Univ of Electronic Sci and Tech of China
- Research on DoS Atomic Attack Oriented to Attack Resistance Test* pp.1747-1752
Siyuan Xin,
Xingyuan Chen,
Huilin Tang,
Ning Zhu, Institute of Electronic Technology, China
- Modal Policy Management Framework for Management of Distributed Systems* pp.1753-1757
Guomin Zhang,
Na Wang,
Ming Chen,
Xiaofeng Qiu, PLA Univ. of Sci. and Tech., China
- Stability Analysis of Switched Nonlinear Systems Based on Dynamical Dwell Time Approach* pp.1758-1763
Zhengrong Xiang, Nanjing Univ. of Sci. and Tech, China
Weiming Xiang, Southwest Univ. of Sci. and Tech, China
- Analysis of Kolmogorov Entropy Characteristic of L-PLC Channel*

Zhenchao Wang,
Shibing Zhang,
Huiran Hou,
Yutao Gan, Hebei University, China

Extended Stochastic Gradient Algorithms for System Modeling Based on the Auxiliary Model pp.1770-1772

Dongqing Wang,
Chuangye Luan, Qingdao University, China

The Effect of Dimension on Performance and Complexity Comparison of Torus Interconnection Networks
pp.1773-1777

Qing Yao,
Du Xu,
Hong Wang,
Guo Jiang,
Lei Song, University of Electronic Sci and Tech of China

L-PLC Channel Characteristics Prediction Based on SVM
pp.1778-1783

Zhenchao Wang,
Yutao Gan,
Huiran Hou,
Shibing Zhang, Hebei University, China

Approximate Solution Research of State Equation for Controlled Nonlinear Systems pp.1784-1787

Shaoyong Cao, Beijing Inst. of Graphic Comm., China
Guowei Yang, Qingdao University, China
Xuyan Tu, Univ. of Sci. and Tech, China

Model Analyses on Message Stream Transmission in P2P-SIP
pp.1372-1375

Ying Huang, China University of Geosciences
Zifan Yu, Wuhan University, China
Xiao Yi, Wuhan Road-bridge Management Center, China
Yong Liu, Polytechnic Univ, USA

Robust Classification of Vehicle based on Fusion of TSRP and Wavelet Fractal Signature pp.1788-1793

Daqi Zhang,
Shiru Qu,
Zhenzheng Liu, Univ of Northwestern Polytechnical, China

Evaluation on DSM power-saving implementation based on DEA model pp.1794-1799

Lirong Chen,
Qiang Li,
Ru Li,
Jingmin Wang, Inner Mongolia University, China

Behavior Pattern Mining: Apply Process Mining Technology to Common Event Logs of Information Systems pp.1800-1805

Jinliang Song,
Tiejian Luo,
Su Chen, Graduate University of CAS, China

A Stairway Detection Algorithm based on Vision for UGV Stair Climbing pp.1806-1811

Yang Cong,
Xiaomao Li,
Ji Liu,
Yandong Tang, Chinese Academy of Sciences

*Two-Level Parallel Implementation of FDTD Algorithm on CBE** pp.1812-1817

Bo Li,
Hai Jin,
Zhiyuan Shao, Huazhong Univ of Sci and Tech, China

Synchronization of a General Delayed Complex Dynamical Network via Adaptive Feedback pp.1818-1822

Qunjiao Zhang,
Junan Lu, Wuhan University, China
Jinhu Lu, Chinese Academy of Sciences

A Scheduling Strategy for Parallel Proof Checking and Verification pp.1823-1827

Pei He,
Lishan Kang, Wuhan University, China
Zengliang Xiao,
Zhuoyu Xiao, Changsha Univ. of Sci. and Tech, China

Optimal Path Planning for Autonomous Airship Based on Clonal Selection and Direct Collocation Algorithm
pp.1828-1832

Yu Liu,
Yachen Zhang,
Yueming Hu, South China University of Technology, China

Texture Classification using Combined Multiresolution Transformations and Support Vector Machines pp.1833-1836

Xiujian Li, Henan University of Technology, China

Assessment of Integrated Electronic Information System survivability based on u-function pp.1837-1841

Ming Bao,
Yuewei Dai,
Guangjie Liu, Nanjing Univ. of Sci. and Tech, China

An On-chip Communication Mechanism Design in the Embedded Heterogeneous Multi-core Architecture
pp.1842-1845

Like Yan,
Qingsong Shi,
Tianzhou Chen,
Guobing Chen, Zhejiang University, China

Extending Intelligent Space with Ubiquitous Computing Technology: the Rich Servants Service Model pp.1846-1849

Tingting Fu,
Yigang Wang, Hangzhou Dianzi University,
Huaidong Shi,
Hao Fu, Zhejiang University, China

A Semantic Model and Query Mechanism for Service Workflow
pp.1850-1855

Jian Cao, Shanghai Jiaotong University, China
Haiyan Zhao, Univ. of Shanghai for Sci. and Tech., China

AUTHOR INDEX

C = Chair, CC= Co-Chair

Name	Session	Page						
A								
Abjadi, Navid R.	SunA01	212	Charkari, Nasrollah	MonE04	983	Chu, Chengbin	SunN03	84
Ahmadi, Majid	MonE05	C	Chen, Chunlin	TueA06	1599	Chu, Feng	SunN03	84
Ahmadi, Majid	MonE05	988	Chen, Guobing	InterB	1842	Chu, Xiumin	InterA	614
Ai, Dongmei	InterA	562	Chen, Guolong	SunA03	277	Chung, Tae Choong	TueA04	1541
Amanian, Karim	TueM01	1053	Chen, Haishan	InterB	1700	Cong, Yang	InterB	1806
Amanian, Karim	SunN05	137	Chen, Hong	MonE04	977	Cong, Yang	InterA	556
Angeles, Chester T.	TueN01	1263	Chen, Hongjun	InterA	399	Cui, Ling-guo	TueM03	1119
Atulya, Velivelli	TueN04	CC	Chen, Hong-hui	SunN03	61	Cui, Lingguo	InterA	583
Atulya, Velivelli	TueN04	1366	Chen, Hsin-Yuan	MonA06	847	Cui, MinYu	TueM04	1174
Askari, Javad	SunA01	212	Chen, Jianxin	MonA03	745	Cui, Yongrui	TueM03	1142
Aziz, M.	TueN06	1430	Chen, Jianxin	TueA02	1471	Cunha, Jose	TueM05	1211
			Chen, Jing	TueA02	1471	D		
			Chen, Jing	MonA03	745	Dai, Guojun	InterB	1680
			Chen, Jun-jie	MonE06	1048	Dai, Lixin	TueM05	1207
			Chen, Jun-jie	TueA01	1439	Dai, Peng	MonA03	736
			Chen, Ke	MonA06	832	Dai, Qionghai	InterA	654
			Chen, Ke	TueA02	1480	Dai, Qinyun	SunA03	271
			Chen, Lirong	InterB	1794	Dai, Shiqiang	MonA01	687
			Chen, M	InterB	1636	Dai, Yue-wei	InterB	1837
			Chen, Ming	TueN06	CC	Dai, Yue-wei	MonE02	911
			Chen, Ming	TueN06	1425	Dai, Yue-wei	InterA	625
			Chen, Ming	TueN06	1425	Daoud, R.M.	TueN06	1430
			Chen, Ming	InterB	1753	Deng, Mingcong	SunN01	C
			Chen, Ning	SunA01	201	Deng, Mingcong	SunN01	22
			Chen, Qianbin	TueA01	1445	Deng, Yi	MonA03	739
			Chen, Qing-Wei	SunN01	26	Deng, Yu	InterB	1683
			Chen, Su	InterB	1800	Deng, Yu-long	MonA02	698
			Chen, Tianzhou	TueM04	1164	Di, Wu	MonA05	812
			Chen, Tianzhou	InterB	1842	Dillon, Eamonn	TueM03	1119
			Chen, Wen-Hua	MonA01	C	Ding, Hancheng	SunN05	133
			Chen, Wen-Hua	MonA01	692	Ding, Junhua	SunN03	78
			Chen, Xinyu	TueA01	1459	Ding, Li	TueA01	1439
			Chen, Xingyuan	InterB	1747	Ding, Xuegong	SunA04	304
			Chen, Xuemin	SunA05	CC	Ding, Yanlan	SunN03	73
			Chen, Xuemin	TueM01	CC	Dong, Daoyi	TueA06	1599
			Chen, Xuemin	TueM01	1074	Dong, Gaun	InterB	1692
			Chen, Yang	TueA03	1511	Dong, Jin-nan	SunA05	314
			Chen, YaoWu	MonA02	714	Dong, Ling	InterA	523
			Chen, Yonggang	InterB	1696	Dong, Xiang	SunA05	335
			Chen, Yonggang	TueA04	1531	Dong, Xiaoshe	SunN05	154
			Chen, Yu	InterB	1700	Du, F	InterA	424
			Chen, Yuanzhu Peter	MonE06	1019	Du, Zhigao	SunN05	148
			Chen, Zhixiong	MonE04	C	Duarte, Vitor	TueM05	1211
			Chen, Zhixiong	MonA05	CC	E		
			Chen, Zhixiong	MonA05	796	Eccleston, C	TueA03	1521
			Chen, Zhixiong	MonA05	796	Elsayed, H.M.	TueN06	1430
			Chen, Zhongsheng	SunN02	56	F		
			Cheng, Chuanye	TueM02	1092	Fan, Liquan	MonA01	666
			Cheng, Hongju	SunA03	277	Fan, Wei-Hua	SunN01	26
			Cheng, Lianglun	InterA	642	Fan, Xiao	MonE02	905
			Cheng, Yan	SunA04	298	Fan, Yumei	InterA	562
			Cheng, Yunzhi	InterA	539	Fan, Zuzhi	MonE06	1019
			Chi, Jieru	SunN06	160	Fang, Chen	TueA01	1435
			Chi, Jieru	MonE03	943	Fei, Han	InterA	442
			Chi, Jieru	TueM06	1233	Fei, Hong	InterB	1714
			Chidananada, Gowda	MonA05	823			
			Cho, Jinsung	TueM04	1179			
			Chou, Tung-Yi	MonA06	CC			
			Chou, Tung-Yi	MonA06	847			

Feng, Haidong	SunN05	133	Han, Xiaodong	MonA01	671	Huang, Kun	SunN02	46
Feng, Taiming	TueA05	1589	Han, Xiaodong	TueM02	1114	Huang, Liusheng	InterA	596
Feng, Zhiqiang	TueM02	1092	Han, Yanbin	InterA	503	Huang, Liusheng	InterB	1705
Fong, Li-Wei	TueM01	1059	Hao, Chen	MonE05	1004	Huang, Mei	MonE06	1048
Fu, Haidong	TueM03	1137	Hawley, M	TueA03	1521	Huang, Shou-Hsuan	InterA	608
Fu, Hao	InterB	1846	Hazel Antaramian-	TueN04	1358	Huang, Siliang	TueM03	1137
Fu, Tingting	InterB	1846	Hofman			Huang, Thomas S.	MonA05	796
Fu, Xinmin	InterB	1654	He, Guoquan	MonE04	CC	Huang, Wei	MonE04	955
Fu, Yingzi	TueA04	1531	He, Guoquan	MonE04	961	Huang, Yayou	SunN02	43
Fu, Zetian	TueA04	1547	He, Jin	TueA06	1604	Huang, Ying	TueN04	1372
			He, Jingsha	TueM06	1222	Huang, Yuanqiang	TueM05	CC
	G		He, Kun,	InterA	630	Huang, Yuanqiang	TueM05	1190
Gan, Yutao	InterB	1764	He, Liang	MonA04	CC	Hui, Chun	InterA	548
Gan, Yutao	InterB	1778	He, Liang	TueM04	1158	Huynh, Hieu Trung	TueA03	1517
Gao, Fuxiang	TueM03	1131	He, Pei	InterB	1823			
Gao, Guoli	InterA	399	He, Tian	MonE06	1025		I	
Gao, Guoqin	MonE03	C	He, Xiao	SunA05	330	Inoue, Akira	SunN01	22
Gao, Guoqin	MonA01	CC	He, Xin	InterB	1688			
Gao, Guoqin	MonE03	932	He, Xuehao	TueN05	1376		J	
Gao, Hong-xia	SunN02	52	He, Ying	MonA04	768	Jafari, Mohammad	SunN05	137
Gao, Hui	TueN02	1305	Heras, Ruben	SunN05	148	Jahanshahi, E.	SunN04	101
Gao, Jingmin	TueM01	1070	Hirasawa, Kotaro	TueA03	1511	Je, Hongmo	MonE03	926
Gao, Junyao	MonA04	780	Ho, Wen-Chi	MonA04	791	Ji, Cheng	InterA	513
Gao, Meijuan	TueN01	1269	Hong, Li	InterA	592	Ji, Dongchao	InterA	442
Gao, Wenjun	InterA	478	Hong, Li	InterB	1730	Ji, Hao	TueN01	1259
Gao, Xueshan	MonA04	780	Hong, Long	MonA02	698	Ji, Xiaopeng	TueM02	1114
Ge, Long	TueM02	1114	Hou, Bin	TueM02	1097	Ji, Xiaopeng	SunA05	325
Ge, Zhe-xue	TueM01	1065	Hou, Huiran	InterB	1764	Ji, Xiaopeng	MonA01	671
Geng, Qin	TueN03	1310	Hou, Mingliang	MonA02	708	Jia, Chunfu	TueN03	1337
Geng, Yanfeng	InterA	556	Hou, Zengguang	MonE01	C	Jia, Fengeng	MonE04	971
Ghaffarkhah, Alireza	MonA04	762	Hou, Zengguang	TueN02	C	Jia, Lei	TueN02	1305
Ghaffarkhah, Alireza	SunA01	206	Hou, Zengguang	SunN04	117	Jia, Li-Juan	SunN01	13
Gharaviri, Ali	TueA02	1465	Hou, Zengguang	MonE01	874	Jian, Lin	InterB	1714
Gill, Khusvinder	TueN06	1419	Hou, Zengguang	TueN02	1294	Jiang, Chao	SunN02	43
Grochowski, David E.	MonA04	774	Hou, Zengguang	TueN02	1300	Jiang, Daming	SunN01	19
Gu, Yu	MonE06	1025	Hourfar, Farzad	SunN01	7	Jiang, Guo	InterB	1773
Gu, Zhaozhi	InterA	592	Hu, Honglin	SunA03	271	Jiang, Hua	InterA	472
Guan, Shangyuan	SunN05	154	Hu, Jing-jing	TueM03	1119	Jiang, Wei	InterA	648
Guan, Xinping	SunA04	CC	Hu, Jinglu	TueA03	1511	Jiang, R.	SunA01	217
Guan, Xinping	SunA04	310	Hu, N Q,	InterB	1636	Jiang, Xinghong	MonE02	916
Gui, Weihua	SunA01	CC	Hu, Rong	TueA05	1565	Jiang, Yonghong	InterA	429
Gui, Weihua	SunA01	201	Hu, Saichun	SunN02	43	Jiang, Ze	InterA	592
Guo, De-ke	SunN03	61	Hu, Sanqing	TueA02	C	Jin, Hai	InterB	1812
Guo, Jianmei,	InterB	1674	Hu, Sanqing	InterA	654	Jin, Wenjin	SunA02	236
Guo, Jun-peng,	InterA	552	Hu, Sanqing	TueA02	1486			
Guo, Lianhe	TueM01	1074	Hu, Tao	TueM05	1185		K	
Guo, Ling	InterB	1688	Hu, Wei-Li	SunN01	CC	Kalayci, Selim	MonA03	739
Guo, Ping	TueA01	C	Hu, Wei-Li	SunN01	26	Kamalabady, A.Sabet	SunA06	374
Guo, Ping	TueA01	1459	Hu, Xiaomei	InterA	457	Kanae, Shunshoku	SunN01	13
Guo, Shanqing	TueA05	1589	Hu, Yueming	InterA	462	Kang, Jianchu	TueM03	1125
Guo, Xiaojiao	TueA02	1480	Hu, Yueming	InterA	660	Kang, Lishan	InterB	1823
Guo, Xiaomei	TueA04	1547	Hu, Yueming	TueN05	1376	Kang, Mei	TueA02	1476
Guo, Xin	MonA03	751	Hu, Yueming	InterB	1828	Khaloozadeh, H.	SunA06	363
Guo, Zhi	MonA06	837	Hu, Yue-ming	SunN02	52	Kim, Daijin	MonE03	CC
Guo, Zhi	MonE05	1014	Hu, Xiao	MonA04	786	Kim, Daijin	MonE03	926
Guo, Zhi	MonE05	1008	Hu, Zheng	SunN02	56	Kim, DongSub	TueM04	1174
	H		Huang, Benxiong	InterA	488	Kim, Jung-ja	TueA03	1517
Hai, Dang Thanh	TueA03	1496	Huang, De-Shuang	InterA	602	Kim, KeeBum	TueM04	1174
Han, Dapeng	SunN01	1	Huang, Guolin	MonE04	971	Kim, Sangkyune	MonE06	1037
Han, Hong-gui	TueN02	1279	Huang, He	SunA05	325	Kondo, Eiji	MonE03	920
Han, Xiaodong	SunA05	325	Huang, He	MonA01	671	Kong, Zhizhou	InterB	1692
			Huang, Jianhui	SunA03	257	Korondi, Peter	MonE03	949

Kulasekere, Chulantha Kumar, Surendra	TueA06 TueA06	1615 1609	Li, Yang Li, Yang Li, Yongmin Li, Yun Li, Yunqiu Li, Zeng-zhi Li, Zexiang Li, Zhan Li, Zhang Li, Zhengming Li, Zhengming Li, Zhengming Li, Zhenlong Li, Zhiqiang Li, Zhiwu Li, Zhiwu Li, Zhongxu Liang, B. Liang, Geng Liang, Geng Liang, Litao Liang, Shuang Liang, Zize Liang, Zize Liang, Zize Liao, Le-jian Liao, Zhu-hua Lin, Changqing Lin, Chiang Lin, Xing Lin, Xing Lin, Xiao-fen Lin, Lin Ling, Ming Ling, Ming Ling, Ming Liu, Anan Liu, Baosen Liu, Bin Liu, Bo Liu, Derong Liu, Derong Liu, Derong Liu, Derong Liu, Di Liu, G.J Liu, Guanfeng Liu, Guangjie Liu, Guangjie Liu, Guangjie Liu, Guohai Liu, Guohai Liu, Hai-ming Liu, Hao Liu, Hao Liu, Hao Liu, Hua Liu, Hua Liu, Hua Liu, Huabo Liu, Hui	InterA TueN03 MonE01 TueA01 TueN06 TueN06 SunN01 MonA06 MonE04 MonE02 MonE02 MonE02 TueN05 TueA01 MonA01 TueA05 SunN03 SunN03 InterA SunA01 SunA01 SunA06 TueM05 TueM01 SunN04 TueN02 TueN02 TueM03 TueA05 SunA05 InterB TueN02 TueN03 TueN03 TueN06 TueN04 SunA03 SunA03 InterB TueN04 TueA01 SunA02 SunN06 MonM02 SunA04 SunA06 MonE01 SunA06 InterA SunA04 InterA MonE02 InterB TueA02 TueA02 SunN02 SunN02 SunA03 TueA01 MonA03 TueA03 TueM06 MonE04	543 1332 880 1445 1413 1405 1 832 966 C 891 916 1395 1449 666 1589 67 90 385 217 195 368 1196 1070 117 1294 1300 1119 1565 319 1668 1284 1315 1405 1343 CC 267 1641 1348 1449 232 165 C 310 351 874 346 573 283 625 911 1837 CC 1476 52 56 262 1435 731 1500 1233 955	Liu, Ji Liu, Ji Liu, Jian-xun Liu, Jianyi Liu, Jianyi Liu, Jie Liu, Jingjing Liu, Peng Liu, Peng Liu, Pingyuan Liu, Richard Liu, Richard Liu, Richard Liu, Rushui Liu, Si-Qian Liu, Tao Liu, Wai-xi Liu, Wei Liu, Wei Liu, Wen Jing Liu, Xiaohui Liu, Ximin Liu, Xin-Ge Liu, Xin-Ge Liu, Xijuan Liu, X.M. Liu, Yi Liu, Ying Liu, Yong Liu, Yu Liu, Yu Liu, Yuan Liu, Yuhai Liu, Yuran Liu, Yutian Liu, Zhanjun Liu, Zhenzheng Long, Fei Lu, Jinhu Lu, Junan Lu, Pengchao Lu, Shoufeng Lu, Shuwang Lu, Yanchao Luan, Chuangye Luan, Zhongzhi Luo, Aimin Luo, Kunyi Luo, Nianting Luo, Qi Luo, Tiejian Luo, Tiejian Luo, Wen Luo, Xueshan Luo, Xueshan Luo, Yonglong Lv, Chunfeng Lv, Rui Lyu, Michael R.	InterA InterB TueA05 TueM06 InterB InterA TueA05 SunN06 InterA TueM04 InterB TueA02 SunN02 TueM01 SunN02 InterA TueM02 MonA04 MonA04 TueM02 TueM05 TueM05 SunA05 MonA01 InterA TueA02 InterB InterA SunN05 TueM05 TueN04 TueM02 InterB TueN02 TueA05 MonA02 InterA TueA01 InterB InterB InterB InterB TueM05 TueM05 TueA03 TueA06 TueM05 InterB MonA02 SunN03 InterB InterB TueA06 TueN02 TueA01	556 1806 1565 1217 1683 389 1565 180 503 C 1680 1476 C 1074 37 385 1103 768 786 1097 1211 341 880 687 438 1492 1674 573 148 1207 1372 1103 1828 1284 1589 708 385 1445 1788 1700 1818 1818 1196 687 1337 1196 1770 1190 1734 1190 1500 C 1211 1800 704 61 1734 1705 1604 1288 1459
L								
Lai, Yizong Lazarus, Samuel. B. Lee, Agnes Meiling Lee, Sungyoung Lee, Wonjun Li, Beizhi Li, Bo Li, Demin Li, Demin Li, Denghua Li, Denghua Li, Deyi Li, Deyi Li, Di Li, Di Li, En Li, Gang Li, GeXin Li, Hesong Li, Hongbin Li, Huaizhong Li, Huaizhong Li, Huang Li, Hui Li, Jianhua Li, Jing Li, Jinping Li, Jintao Li, Lin-sheng Li, Ming Li, Mingchu Li, Minglu Li, Qiang Li, Qingbo Li, Quan Li, Quan-Lin Li, Shijin Li, Ru Li, ShuRong Li, ShuRong Li, Shutao Li, Wei Li, Wei Li, Weidong Li, Weidong Li, Weihua Li, Wen-hua Li, Wu Li, Xi Li, Xiaofeng Li, Xiaomao Li, Xiang Li, Xiangyang Li, Xiangyang Li, Xiangyang Li, Xiujuan Li, Xue	SunN02 TueM01 TueN01 TueM04 TueA03 InterB InterB SunA03 SunA03 TueM01 SunN01 TueM03 TueM03 SunN02 InterA TueN02 InterB TueN01 TueM03 TueM04 TueN01 TueN01 InterB MonA04 TueM05 TueM01 InterA TueN04 InterB TueM03 TueM03 TueM06 InterB InterB InterA TueM02 TueN04 InterB InterB SunN06 InterB InterB MonA06 InterA InterA TueA04 SunA02 TueN04 InterB InterA TueA04 TueA04 TueA04 InterB TueM03	32 1080 1263 1179 1496 1708 1812 C 252 1070 19 CC 1125 32 660 1300 548 1273 1125 1169 C 1273 1734 786 1185 1074 503 1348 1626 1119 1142 1238 1794 1696 494 1097 1343 1794 592 1730 1654 170 1648 1658 827 412 552 1531 221 1343 1806 472 CC 1525 1553 1833 1137						

M			Pathirana, Pubudu N.	MonE05	998	Sai, Ying	SunN04	107
Ma, Jia	MonE01	874	Patiño, Daniel	SunA06	C	Salahshoor, Karim	SunN01	7
Ma, Junfei	InterA	592	Patiño, Daniel	SunA06	357	Salahshoor, K.	SunN04	101
Ma, Junfei	InterB	1730	Peng, Xiyuan	InterA	503	Salahshoor, K.	SunA06	374
Ma, Lin	TueM04	1153	Peng, Ya-li	InterA	543	Salahshoor, K.	MonA01	681
Ma, Ruhui	TueN02	1284	Peng, Ya-li	TueN03	1332	Salahshoor, Karim	SunN05	137
Ma, Weimu	TueA02	1480	Peng, Yan	SunN06	175	Salahshoor, Karim	TueM01	1053
Man, Dapeng	SunA02	236	Peng, Yan	SunN06	180	Sayyaadi, Hassan	SunA04	C
Manjili, Y. S.	MonA01	681	Pham, Bao The	MonE02	895	Sayyaadi, Hassan	SunA04	287
Marin, Alonso	InterB	1714	Prabu D, Wipro	TueA06	CC	Schugurensky, Carlos	SunA06	357
Matsumoto, Mitsuji	SunA02	CC	Prabu D, Wipro	TueA06	1609	Sedigh, A. K.	SunN04	111
Matsumoto, Mitsuji	SunA02	226	Prasad, Rajendra	TueA06	1609	Senaratne, Damith	TueA06	1615
Mawson, SJ	TueA03	1521	Pu, Fangli	TueA05	1559	Sha, Feng	TueM04	1164
McCullagh, PJ	TueA03	1521	Q			Shan, Gan-lin	MonE05	993
Mei, Yiduo	SunN05	154	Qi, Deyu,	MonA05	802	Shan, Ping	InterA	562
Meng, Dan	InterA	394	Qi, H.F.	SunA01	217	Shao, Zhiyuan	InterB	1812
Meng, Jintao	InterA	482	Qi, Qifeng	InterA	462	Shen, Jie	InterA	630
Meng, Qingxin	TueA06	1604	Qi, Qifeng	TueN05	1376	Shen, Lin	SunN05	CC
Meng, Xiangxiang	SunA04	283	Qi, Yin-Cheng	InterA	1739	Shen, Lin	SunN05	133
Meng, Xiangyi	TueM03	1125	Qian, Depei	SunN05	148	Shen, Lin	SunA03	267
Mian, Ashfaq Ahmad	MonE03	938	Qian, Depei	SunA03	257	Shen, Lin	InterB	1641
Michalk, Brian	SunN02	37	Qian, Depei	SunN05	148	Shen, Tiyan	SunA02	221
Min, Lequan	MonA06	827	Qian, Longjun	MonE05	1014	Shen, Xingfa	TueM04	1169
Min, Lequan	InterB	1658	Qian, Q.Q	InterA	424	Shen, Wei	InterA	654
Mo, Yijun	InterA	488	Qian, Zhengping	MonA05	802	Shen, Yue	TueA02	1476
Moarref, Miad	SunA04	287	Qiao, Jian-hua	InterB	1626	Sheng, Andong	MonE05	CC
Moghaddam, Hamid	TueA02	1465	Qiao, Jun-fei	TueN02	1279	Sheng, Andong	MonA06	837
Mollanoori, Mohsen	MonE04	983	Qin, G J,	InterB	1636	Sheng, Andong	MonE05	1008
Mosallaei, Mohsen	TueM01	1053	Qin, Gui-he	SunA05	314	Shi, Changmin	SunA02	221
Mosallaie, Mohsen	SunN05	137	Qiu, Dong	InterA	399	Shi, Chao	InterB	1721
Mountain, GA	TueA03	1521	Qiu, J	InterA	573	Shi, Dong-na	SunN06	170
Mu, Xiaodong	InterA	433	Qiu, Li-Qing	InterA	528	Shi, Guang-Shun	InterA	451
Mu, Yuqiang	MonA06	837	Qiu, Xiaofeng	InterB	1753	Shi, Huaidong	InterB	1846
N			Qiu, Yongsheng	SunN05	133	Shi, Lei	TueN02	1300
Nam, Nguyen Phuong	MonE02	895	Qu, Shiru	InterB	1788	Shi, Leyi	TueN03	1337
Naraghi, Mahyar	MonE01	885	Qu, Yi	TueA01	1445	Shi, Qingsong	TueM04	1164
Nie, Mingxin	MonA03	736	Quan, Shuhai	MonA06	853	Shi, Qingsong	InterB	1842
Nie, Xuejun	InterB	1726	Quang, Hoang Nhat	MonE02	895	Shi, Runhua	InterB	1705
Nie, Zaiping	TueN06	1409	Qun, Zong	SunA05	319	Shi, Xiangquan,	SunA03	267
Niu, Xincheng	InterA	385	Qun, Zong	MonE01	859	Shiau, Jiun-Yan	TueA04	C
Nungent, CD	TueA03	1521	R			Shiau, Jiun-Yan	TueA04	1525
Nunez, Yonesy F.	TueM03	C	Rao, Xuejun	MonA02	708	Shiau, Jiun-Yan	TueA04	1553
Nunez, Yonesy F.	TueM03	1148	Raouf, B.	TueN06	1430	Shoorehdeli, Aliyari	SunN04	111
O			Ren, Qiushi	InterA	548	Shpitalni, Moshe	SunN03	67
Olowokere, David	SunA02	C	Ren, Yizhi	TueM03	1142	Shpitalni, Moshe	SunN03	90
Olowokere, David	SunA02	242	Revanth, Nandamuri	TueN04	1362	Shu, Huisheng	SunA05	330
Ostadabbas, Sarah	MonA04	CC	Riad, N.	TueN06	1430	Shu, Zhaogang	SunN02	32
Ostadabbas, Sarah	MonA04	762	Rong, Lu	SunA03	271	Shu, Zhaogang	InterA	660
P			Rosca, Daniela	SunA02	246	Silva, Marcus L. da	SunA02	226
Pan, Lili	MonE05	1004	Roshanbin, Ali	MonE01	885	Sison, Luis G.	TueN01	1263
Pan, Mu	MonA06	853	Ruan, Xiao-gang	TueN02	1279	Sobelman, Gerald E.	MonE06	C
Pan, Qinghua,	TueM02	1109	Rui, Lanlan	TueM04	1153	Sobelman, Gerald E.	MonE06	1025
Pan, Tian-Hong	MonA05	808	S			Soltani, Jafar	SunA01	212
Pan, Tianhong	MonA06	842	Sachin, Raka	TueN04	1362	Solvang, Bjørn	MonE03	949
Pan, Tianhong	TueA01	1449	Sadati, Naser	MonA04	762	Solvang, Wei Deng	TueA04	1536
Pan, Zhenkuan	SunA04	283	Sadati, Nasser	SunA01	206	Song, Bifeng	InterA	442
Pang, Zhongyu	SunA06	351	Sadjadi, S. Masoud	MonA03	CC	Song, CaiFang	TueN05	1385
Park, Jaehyung	MonE06	1037	Sadjadi, S. Masoud	MonA03	739	Song, Danni	InterA	482
Park, Myong-Soon	TueM04	1174	Sahraie, Y.	SunN04	101	Song, Fang	InterA	596
						Song, Haitao	MonA03	756
						Song, Haitao	TueA06	1621
						Song, Haitao	InterB	1663

Wang, Zhang	TueN02	1284	Xing, Qiuyan	MonE02	891	Yang, Mingjing	InterB	1668
Wang, Zhe	TueN05	1400	Xing, Yongzhong	InterA	498	Yang, Nianfa	MonE03	932
Wang, Zhi	TueM04	1169	Xing, Yumei	InterA	548	Yang, Pei	TueA06	1599
Wang, Zhibo	TueM04	1169	Xiong, Zhi	TueA05	1577	Yang, Shenggang	InterB	1692
Wang, Zidong	SunA05	330	Xu, Ailan	InterA	548	Yang, Shiwen	TueN06	1409
Wei, Boyu	MonA04	780	Xu, Ben-chong	MonE06	1048	Yang, Shuang-Hua.	TueN06	C
Wei, Guoliang	SunA05	330	Xu, Ben-chong	TueA01	1439	Yang, Shuang-Hua.	TueN06	1413
Wei, Liu-hua	InterA	630	Xu, Bingjing	InterB	1683	Yang, Shuang-Hua	TueN06	1419
Wei, Mei	MonE05	993	Xu, Dezhi	InterA	587	Yang, Tao	MonE01	874
Wei, Qing	SunN01	1	Xu, Du	InterB	1743	Yang, Tao	TueN02	1294
Wei, Qinglai	InterA	507	Xu, Du	InterB	1773	Yang, Ting	TueN01	1259
Wei, Xiaopeng	TueN04	1353	Xu, Fa-yan	InterA	630	Yang, Wei	InterA	596
Wei, Xiaopeng	TueN05	1381	Xu, Fangmin	InterB	1730	Yang, Wei	TueM03	1131
Weng, Kerui	InterA	408	Xu, Fei	TueM06	1222	Yang, WenCheng	TueM04	1174
Weng, Weiqian	InterA	519	Xu, Feng	TueA04	1547	Yang, Wu	SunA02	236
White, BrianA.	TueM01	1080	Xu, Hai-Yin	TueA05	CC	Yang, X.H.	SunA01	217
Won, Yonggwan	TueA03	1517	Xu, Hai-Yin	TueA05	1559	Yang, Xiaojia	SunA02	232
Wood, Mark	MonA01	692	Xu, Huan	InterA	602	Yang, Xueguang	MonE01	870
Worrell, GregoryA.	TueA02	1486	Xu, Kefu	MonA05	802	Yang, Yi-min	MonE02	900
Wright, P	TueA03	1521	Xu, Liyan	InterA	583	Yang, Y M	InterB	1636
Wu, Chunhua	InterA	636	Xu, Liyan	TueM06	1227	Yang, Yongmin	TueM01	C
Wu, Guangguan	TueA05	1577	Xu, Rui	InterA	412	Yang, Yongmin	SunN02	CC
Wu, Haiyan	TueM02	1086	Xu, Shuhua	MonA01	677	Yang, Yongmin	TueM01	1065
Wu, Han-Ching	InterA	608	Xu, Wei-Sheng	SunA04	298	Yang, Yongmin	SunN02	56
Wu, Jiapeng	TueN04	1348	Xu, Yang	TueN03	C	Yang, Yongtian	SunA02	236
Wu, Jue	InterA	578	Xu, Yang	TueN03	1326	Yang, Zhaoxuan	TueN04	1348
Wu, Liqiong	TueM03	1131	Xu, Yong-cheng	TueM01	1065	Yang, Zhanxin	TueN02	1288
Wu, Lu-lu	TueM02	1103	Xu, Yuanxin	InterA	519	Yang, Zi-Jiang	SunN01	13
Wu, Naiqi	SunN03	CC	Xu, Yuanxin	InterA	533	Yang, Zongxiao	TueM02	C
Wu, Naiqi	SunN03	84	Xu, Yuanxin	InterA	523	Yang, Zongxiao	TueM02	1092
Wu, Nan	TueN01	1247	Xu, Yuebin	SunA04	283	Yang, Zongxiao	InterB	1648
Wu, Panlong	SunA06	346	Xu, Zhigang	MonE05	1008	Yao, Fang.	TueN06	1419
Wu, Qing	InterA	614	Xu, Zhiliang	InterA	498	Yao, Guoliang	SunA03	262
Wu, Weiguo	SunN05	154	Xue, Ming	TueM04	1174	Yao, Qing	InterB	1773
Wu, Xu	TueM06	1222	Xue, Songdong	InterA	402	Yao, Yu	TueM03	1131
Wu, Xiaobei	InterA	498	Xue, Zhenghua	SunN05	154	Yao, Zhijun	MonE05	1014
Wu, Yibo	InterA	548				Ye, Feng	SunN02	32
Wu, Zhongbo	MonE04	977		Y		Ye, Feng	InterA	660
Wu, Zhongjun	TueM02	CC	Yan, Bingheng	TueM05	1190	Yi, Xian-qing	SunN03	61
Wu, Zhongjun	TueM02	1109	Yan, Hu	InterA	451	Yi, Xiao	TueN04	1372
Wu, Zhongxin	TueM05	1190	Yan, Like	InterB	1842	Yi, Zhaoxiang	InterA	433
			Yan, Guozheng	TueA03	1500	Yin, Baocai	MonA02	725
	X		Yang, Bin	InterB	1654	Yin, Baocai	MonE02	905
Xi, Guangcheng	MonA03	745	Yang, Fuwen	MonE01	880	Yin, BaoCai	TueN05	1385
Xi, Guangcheng	TueA02	1471	Yang, Guowei	TueM06	C	Yin, Jian	SunA04	293
Xia, Haiyan	InterB	1840	Yang, Guowei	SunN06	CC	Yin, Zuoyou	InterA	467
Xiang, Weiming	InterB	1758	Yang, Guowei	SunN06	160	Yu, Cao	TueN04	C
Xiang, Wenxin	InterA	446	Yang, Guowei	SunN06	184	Yu, Cao	TueN04	1358
Xiang, Wenxin	TueN03	1320	Yang, Guowei	InterA	567	Yu, Cao	TueN04	1362
Xiang, Zhengrong	InterB	1758	Yang, Guowei	MonE03	943	Yu, Ge	TueM03	1131
Xiao, Degui	InterA	418	Yang, Guowei	TueM06	1227	Yu, Jingyan	TueM01	1074
Xiao, Suhua	InterA	660	Yang, Guowei	TueM06	1233	Yu, Jun	TueN05	1391
Xiao, Xin-Lu	InterA	451	Yang, Guowei	TueM06	1243	Yu, Jun	TueM06	1233
Xiao, Zengliang	InterB	1823	Yang, Guowei	InterB	1641	Yu, Lasheng	InterB	1714
Xiao, Zhuoyu	InterB	1823	Yang, Hai-Bo	MonE06	1031	Yu, Min	InterA	543
Xie, Bin	TueM04	1164	Yang, Jie	MonE03	943	Yu, Songnian	TueA03	1511
Xie, Jiabin	SunN02	37	Yang, Jianguo	InterB	1708	Yu, Tao	InterA	457
Xie, Lei	InterA	614	Yang, Kan	InterA	596	Yu, Xiao	InterA	567
Xie, Rong-Hua	SunN01	26	Yang, Lei	InterA	418	Yu, You-Ling	SunA04	298
Xie, Xiaoyao	TueN03	1326	Yang, Lin	TueM02	1097	Yu, Zhen-Wei	MonE04	966
Xin, Siyuan	InterB	1747	Yang, Lingjun	TueN02	1288	Yu, Zhang	InterB	1641
Xing, Changyou	TueN06	1425	Yang, Lynn	MonE05	988	Yu, Zifan	TueN04	1372

Yuan, Jin-Sha	InterB	1739	Zhang, Shibing	InterB	1778	Zheng, Zhou	InterA	592
Yuan, Peng	SunN02	52	Zhang, Suxian	MonA05	818	Zhou, Changjun	TueN04	1353
Z								
Zamanizadeh, E.	MonA01	681	Zhang, Suxiang	MonA05	818	Zhou, Changjun	TueN05	1381
Zan, Peng	TueA03	1500	Zhang, Tian	InterA	587	Zhou, Chuan	InterA	556
Zbikowski, Rafal	TueM01	1080	Zhang, Ting	SunN06	180	Zhou, Fu	InterB	1708
Zeng, Hong-bo	SunN02	46	Zhang, Wei	MonE04	961	Zhou, Hao	TueN01	1269
Zeng, Jianchao	InterA	402	Zhang, Weishi	TueA05	1571	Zhou, Haoyu	MonE05	1004
Zeng, Xia-ling	InterA	543	Zhang, Xiang	InterA	620	Zhou, Hongfu	SunN04	123
Zhai, Jiefu	TueN05	1400	Zhang, Xiangwen	TueN01	1253	Zhou, Hongfu	SunA01	190
Zhai, Guisheng	SunA01	C	Zhang, Xiaobo	InterA	642	Zhou, HuaiBei	MonE06	CC
Zhai, Guisheng	SunA01	201	Zhang, Xiao-guang	InterB	1668	Zhou, HuaiBei	MonE06	1019
Zhang, Bing	SunA02	236	Zhang, Xiaoshuan	TueA04	1547	Zhou, Jie	SunA03	252
Zhang, Cheng	InterA	523	Zhang, Xiongmei	InterA	433	Zhou, Jingli	InterB	1726
Zhang, Chaoyang	InterA	462	Zhang, Xiuguo	TueA05	1571	Zhou, Mengchu	SunN03	84
Zhang, Chaoyang	TueN05	1376	Zhang, Xue-xi	MonE02	900	Zhou, Mengchu	TueN05	1400
Zhang, Chongsheng	MonE04	977	Zhang, Y.	InterA	573	Zhou, Ning-ning	MonA02	698
Zhang, Chun-Kai	MonE04	966	Zhang, Yachen	InterB	1828	Zhou, Sanqi	SunN01	19L
Zhang, Daqi	InterB	1788	Zhang, Yanhui	InterB	1696	Zhou, S.J.	SunA01	217
Zhang, Dezheng	InterA	562	Zhang, Yang	MonE04	966	Zhou, Xianzhong	TueA06	1599
Zhang, Fan	SunA03	252	Zhang, Ying	TueA06	1621	Zhou, Xianzhong	InterB	1688
Zhang, Fan	InterA	539	Zhang, Ying	InterB	1663	Zhou, Xiaojing	MonA02	CC
Zhang, Ge	SunN02	46	Zhang, YiYing	TueM04	1174	Zhou, Xiaojing	MonA02	719
Zhang, Guangwei	TueM03	1125	Zhang, Yongdong	TueN04	1348	Zhou, Xu	MonE04	955
Zhang, Guomin	InterB	1753	Zhang, Yudong	MonA02	708	Zhou, Xu	TueN06	1409
Zhang, Haoshui	InterA	380	Zhang, Yunong	MonA06	832	Zhou, Yalan	SunA04	293
Zhang, Hongjun	SunA02	232	Zhang, Yunong	MonA06	C	Zhou, Yun-feng	MonE05	993
Zhang, Hongjun	TueM02	1109	Zhang, Yunong	TueA02	1480	Zhou, Zheng	InterB	1730
Zhang, Hong-li	InterA	648	Zhang, Zhaoyu	InterA	446	Zhu, Fei	TueN02	1294
Zhang, Hongnan	SunN02	43	Zhang, Zhiguang	TueM05	1207	Zhu, Jianguo	MonA04	780
Zhang, Huaguang	MonE01	CC	Zhang, Zhiwei	InterA	587	Zhu, Jian-Yun	MonA05	808
Zhang, Huaguang	SunN04	CC	Zhao, De-An	MonA05	C	Zhu, Longquan	InterA	429
Zhang, Huaguang	SunN04	96	Zhao, De-An	MonA05	808	Zhu, Ning	InterB	1747
Zhang, Huaguang	InterA	467	Zhao, Erdun	MonE06	1042	Zhu, Qian	SunN06	160
Zhang, Huaguang	InterA	507	Zhao, Gaopeng	SunA06	346	Zhu, Rongming	MonE01	870
Zhang, Huaguang	MonE01	864	Zhao, Haiyan	TueM05	1201	Zhu, Rongming	InterB	1721
Zhang, Hui	InterB	1668	Zhao, Haiyan	InterB	1850	Zhu, Shuai	InterA	533
Zhang, Jianhong	InterA	513	Zhao, Huihui	MonA03	745	Zhu, Wei	MonA04	780
Zhang, Jianhong	TueN03	1310	Zhao, Jian	MonE06	1042	Zhu, Wenhua	InterA	457
Zhang, Jie	InterA	533	Zhao, Jian	InterA	482	Zhu, Xiao-jing	SunN02	46
Zhang, Jinjie	SunA02	221	Zhao, Jianlong	InterA	548	Zhu, Xiaoqin	TueN05	1395
Zhang, Jing	MonE01	859	Zhao, Jianyu	TueN02	CC	Zhu, Xiaoyong	MonE02	891
Zhang, Jing-gang	InterB	1626	Zhao, Jianyu	TueN02	1305	Zhuang, Like	SunN06	175
Zhang, Juwei	TueN01	1259	Zhao, Li-Ping	InterA	528	Zhuang, Xiao-dong	TueN05	1391
Zhang, Kangkang	SunN04	107	Zhao, Tie-shan	TueN06	1405	Zhuang, Xiaodong	SunN06	160
Zhang, Kangkang	TueN04	1354	Zhao, Weiliang	TueA01	1445	Zhuang, Xiaodong	SunN06	184
Zhang, Li	InterA	433	Zhao, Yan	SunN04	96	Zhuang, Xiaodong	InterA	567
Zhang, Liang	InterA	543	Zhao, Yongtao	TueM06	1233	Zhuang, Xiaodong	TueM06	1227
Zhang, Liang	TueN03	1332	Zhao, Yuelong	SunN05	142	Zong, Qun	SunA05	341
Zhang, Liyan	MonA06	853	Zhao, Yu-xin	InterA	625	Zou, Beiji	MonE05	1004
Zhang, L. L.	TueA06	1593	Zhao, Zhanshan	MonE01	859			
Zhang, Mingchuan	InterB	1648	Zhao, Zhengxu	MonA02	719			
Zhang, Ping	InterA	389	Zhao, Zheng-xu	MonA02	698			
Zhang, Qiang	InterA	482	Zhen, Chen	MonA05	812			
Zhang, Qiang	MonE06	1042	Zhen, Lu	TueA06	1621			
Zhang, Qiang	TueN04	1353	Zhen, Lu	InterB	1663			
Zhang, Qiang	TueN05	1381	Zheng, H	TueA03	1521			
Zhang, Qingquan	MonE06	1025	Zheng, Huicheng	InterA	654			
Zhang, Qunjiao	InterB	1818	Zheng, Huiru	TueA03	C			
Zhang, Shensheng	TueA05	1583	Zheng, Huiru	TueA03	1505			
Zhang, Shibing	InterB	1764	Zheng, Weiping	MonA05	802			
			Zheng, YaYu	MonA02	714			
			Zhou, Chao	InterA	380			