2007 IEEE International Conference on Networking, Sensing and Control

Final Program

15-17 April 2007, London, United Kingdom

◆IEEE   IEEE SYSTEMS, MAN AND CYBERNETICS SOCIETY

2007 IEEE International Conference on Networking, Sensing and Control

Sponsored by the IEEE Systems, Man and Cybernetics Society
15-17 April 2007, London, United Kingdom

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IEEE ICNSC '07 Program Committee

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Chen, Jie	Kambhampati, C.	Yang, Hongji
Chen, Shu-Ching	Kumarawadu, Sisil	Yang, Jianbo
Chen, Xuemin	Kuo, Chung-Hsien	Yang, Lili
Chen, YangQuan	Ledesma, Sergio	Yang, Shuang-Hua
Chen, Zhixiong	Li, Shaoyuan	Yang, Simon X.
Cheng, Lianglun	Liu, Bin-Da (Brian)	Yang, Tai
Cheng, Xiaochun	Liu, Guoping	Yang, Zi-Jiang
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Chibelushi, Claude C.	Mahfouf, Mahdi	Yi, Jianqiang
Commuri, Sesh	Mao, Tony	Yin, Hujun
Dai, Jiansheng	Min, Geyong	Yu, Dingli
Dai, Yang	Pereira, Rubem	Yu, Hongnian (Chair)
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Darabi, Houshang	Phoha, Vir V.	Yu, Wensheng
DasGupta, Bhaskar	Piazza, Francesco	Yuan, Dongfeng
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Dodd, Tony	Schutter, Bart De	Yue, Yong
Duan, Guangren	Selmic, Rastko	Yusuf, Yahaya
Erdogmus, Deniz	Seneviratne, Lakmal	Zakrzewska, Danuta
Feng, Gary	Shen, Tielong	Zampieri, Sandro (Co-Chair)
Fone, William	Sun, Changyin	Zhai, Guisheng
Gomm, J Barry	Sun, Fuchun	Zhang, Chi
Gomma, Hesham W.	Tan, Yonghong	Zhang, Huaguang
Griffiths, Alison L	Tassabehji, Rana	Zhang, Jie
Griffiths, Alison L	Tian, GuiYun	Zhang, Sijing
Hossain, Alamgir	Wang, Bing	Zhang, Xu
Hou, Zeng-Guang	Wang, Jiacun	Zhao, Qiangfu
Hou, Zhong-Sheng	Wang, Jihong	Zhao, Zhengxu
Hu, Dewen	Wang, Jin	Zheng, Wei Xing
Hu, Huosheng	Wang, Lei	Zhou, Donghua
Hu, Jianghai	Wang, Long	Zhou, Tong
Hu, Sanqing	Wang, Xiao-Fan	Zhu, Haibin
Huang, Wei	Wang, Yongji	

GREETINGS FROM THE GENERAL CHAIR AND PROGRAM CHAIR

On behalf of the organising committee, we are very pleased to welcome you to the 2007 IEEE International Conference on Networking, Sensing and Control (IEEE ICNSC '07). 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 academic and in 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 speakers. On the first day, after the official opening, there will be a plenary talk on "Next Generation Infrastructures - Network Management and Control Challenges for the Future" delivered by Professor Margot Weijnen, Delft University of Technology, Netherlands. The second day will start with the plenary talk on "Iterative Learning Control: Theoretical Challenges and Applications" given by Professor David Owens, University of Sheffield, UK. On the last day, we will have a plenary talk on "Intelligent Transportation Systems in Taiwan" presented by Professor Tsu-Tian Lee, National Taipei University of Technology, Taiwan.

We would like to take this opportunity to thank the members of the organising 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.

<div style="display:flex; justify-content:space-between;">
<div>
Guoping Liu
General Chair
</div>
<div>
Hongnian Yu
Program Chair
</div>
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CONFERENCE HIGHLIGHTS

A total of 210 papers were submitted to the 2007 IEEE ICNSC from different parts of the world. Each paper was reviewed by two to three reviewers. The final program includes 162 papers among which 115 are the contributed papers and 47 are special session papers. There are three plenary talks, 8 special sessions, 16 lecture sessions and 2 interactive sessions. Each special session and lecture session consists of 5-6 papers. Papers were assigned with the purpose of forming coherent sessions.

CONFERENCE LOCATION

The conference venue is marked by 'Lecture Centre' on the university campus map at http://www.brunel.ac.uk/287/where_pdfs/uxmap.pdf . The local enlarged map is given below.

CONFERENCE REGISTRATION

The conference registration desk, located at the main entrance of the Lecture Centre in Brunel University, will be open during the following time:

> 09:00am - 6:00pm, Sunday, 15 April 2007
> 08:30am - 6:00pm, Monday, 16 April 2007
> 08:30am - 3:00pm, Tuesday, 17 April 2007

The full registration includes Welcome Reception, Conference Banquet, 3 Lunches, and Conference CD-ROM Proceedings.

Additional sets of CD-ROM proceedings and hard copy proceedings may be purchased at the registration desk ($40 for CD-ROM proceedings and $200 for hard copy proceedings). After the conference, conference proceedings may be purchased by contacting the IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854, USA, tel. 800-768-4333 (or 732-981-0060).

SOCIAL EVENTS

Welcome Reception (6:00pm - 8:00pm, Sunday, 15 April 2007)
Conference Banquet (6:30pm - 8:30pm, Monday, 16 April 2007)

HOTEL RESERVATIONS

The information about hotels is available on website at http://www.ieee-icnsc07.org/accomodation.htm.

TRANSPORTATION

By Air: The conference venue (Brunel University) of the 2007 IEEE ICNSC is about 6 miles away from London Heathrow Airport. For the information on London airports, visit http://www.londontown.com/London/Heathrow_Airport/ .

By Bus:
- **From Heathrow Airport:** A10 "Heathrow Fast", every 15 minutes, journey time approximately 25 minutes (alight The Greenway and use river path).
- **From Stockley Park:** A10 "Heathrow Fast" as above, journey time approximately 10 minutes.
- **From West Drayton railway station:** U3 (alight Cleveland Road), 222 (alight Cowley Road and use path via University flats).
- **From Uxbridge (underground) station:** U1, U3 (alight Cleveland Road), U4 and U7 (alight Kingston Lane), 207 (alight The Greenway and use river path), 607 express (alight The Greenway and use river path), 222 and U5 (alight Cowley Road and Use path via University flats).

By Underground: (London Transport): For Uxbridge Station take the Metropolitan Line from Baker Street (and Piccadilly Line during peak hours). Then take a taxi or bus to the campus: U3 or U1 alight Cleveland Road, U4 or U7 alight Kingston Lane, U5 alight Station Road (all in direction of Hillingdon Hospital).

By Rail: Take trains from London (Paddington) or the West (Bristol) to West Drayton. Catch the 'hail and ride' bus to campus: U3 alight Cleveland Road or U5 alight Station Road.

By Foot: From Uxbridge Tube Station: Skirt around the Old Market past HSBC bank and on into Windsor Street. At the large roundabout at the bottom, turn left and cross the dual carriageway via the light-controlled crossing. Enter the end of Whitehall Road directly ahead. It is then a 15-minute walk along Whitehall Road and over the crossroads into Cleveland Road. The University Reception is on the left opposite the pond.

By Car: Parking on the Uxbridge Campus and in the local area is very restricted. Barriers control access to the site and all vehicles must display a valid permit. On arrival, visitors may apply for a permit for the day from the main Reception Desk in the Wilfred Brown Building, alongside the Cleveland Road entrance. In addition, pay-and-display parking is available on site near the Cleveland Road entrance. **Clamping is in operation for illegally parked vehicles.**

- **M4:**
  Leave M4 at Junction 4 and follow signs to Uxbridge (A408). Straight across first set of traffic lights,

continue on A408, crossing four roundabouts. Turn right at the next set of major traffic lights. Continue ahead to next set of lights and, almost immediately take the right filter lane at second set of traffic lights into Station Road. After 300 metres turn left into Cleveland Road and, after about 150 metres, right into the University.

- **A40/M40:**

  At Swakeleys Roundabout take B483 exit to Uxbridge. Follow signs across two mini-roundabouts. At major roundabout bear left onto A4020 (Brunel sign), straight ahead at the first lights, then almost immediately take second right filter turn onto Kingston Lane (signposted Brunel). The main entrance to Brunel is right at the next roundabout. follow signs for Main Reception as you enter the campus.

- **M25:**

  (From North or South) Join M40 or M4 then see above.
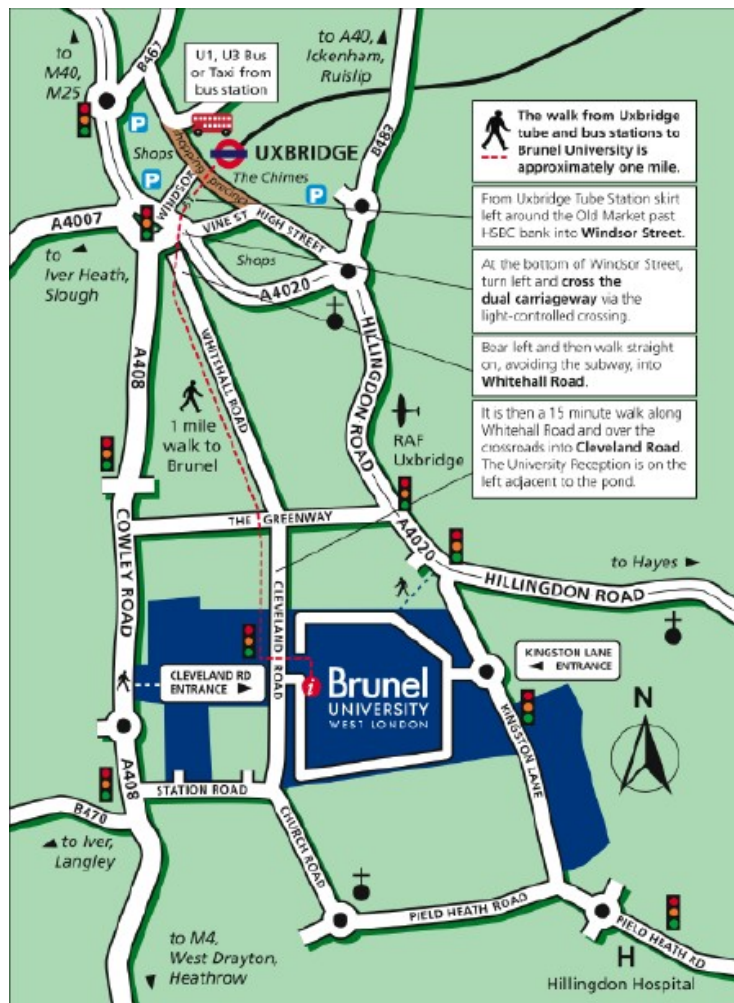
Access by Car for Registered Disabled Visitors

Disabled parking bays are available at various locations around the campus. Please collect a permit from Main Reception, Wilfred Brown Building, Cleveland Road on arrival.

More information on transportation is available on the website at

http://www.brunel.ac.uk/about/where/ux/uxacc.

ABOUT LONDON

London is the largest city in Europe with a population of just under eight million. The city of London has been elected for the 2012 Olympic Games. Ethnically it's also Europe's most diverse metropolis: around two hundred languages are spoken within its confines. London has the greatest concentration of major attractions in Britain and boasts four world heritage sites. More than 200 attractions are free to enter. There's nowhere else in the world where you can see so much for so little. London's traditional sights – Big Ben, Westminster Abbey, Buckingham Palace, St Paul's Cathedral and the Tower of London – continue to draw in millions of tourists every year. Monuments from the capital's more glorious past are everywhere to be seen, from medieval banqueting halls and the great churches of Christopher Wren to the eclectic Victorian architecture of the triumphalist British Empire. There is also much enjoyment to be had from the city's quiet Georgian squares, the narrow alleyways of the City of London, the riverside walks, and the quirks of what is still identifiably a collection of villages.

For attractions in London, visit the website at http://www.britinfo.net/attractions/indexCBB.htm.

PLENARY SPEAKERS

Professor Margot Weijnen, Delft University of Technology, Netherlands.

Professor Margot P.C. Weijnen (1957) is a full professor of process and energy systems engineering at the Faculty of Technology, Policy and Management, Delft University of Technology. She received her MSc and PhD degrees in the field of chemical process engineering from TU Delft, then joined Shell, where she worked in R&D, in chemicals manufacturing and process design engineering, respectively. She was appointed scientific director to the interfaculty Delft University Clean Technology institute where she served until her appointment as a full professor in the faculty of Technology, Policy and Management in 1995. In the faculty of TPM she heads the Department of Infrastructure Systems & Services and, within that department, the section for Energy and Industry. The section's research programme focuses on the development of systems design and control engineering methods and tools for energy infrastructures and industrial process networks.

She is the founding programme director of the TU Delft interfaculty research center for Design and Management of Infrastructures, which she established in 1997-1998 and has directed since. She is now scientific director of the Next Generation Infrastructures Foundation, a national knowledge initiative which unites a large number of knowledge institutions as well as public and private organizations actively involved in the design and management of energy, transport and telecommunication infrastructures.

She chaired the 5-year assessment for the EU non-nuclear energy programmes (2000- 2001) and is a member of the EU Advisory Group on Energy since its establishment in 2002. Besides her membership of the Supervisory Board of the National Aerospace Laboratory Foundation, she is a member of the Netherlands General Energy Council (AER), the Netherlands Science and Technology Policy Council (AWT) and the national Innovation Platform.

Professor David H Owens, University of Sheffield, UK

Professor David Owens is currently the Head of the Department of Automatic Control and Systems Engineering (1999-present time) and was Dean of Engineering at Sheffield University (2002-2006). He has over 38 years involvement in academic life with experience of departmental teaching, administration and research and high-level University committee service in three UK Universities (Sheffield, Strathclyde and Exeter Universities).

He has served on many Committees and the Council of the Institution of Electrical Engineers and the Institution of Mechanical Engineers. He was the Chairman of the United Kingdom Automatic Control Council from 1999-2002, has served on the Health and Safety Commission's Nuclear Safety Advisory

Committee (1995-2006) and has been an independent member of British Energy's Training Standards and Accreditation Board. He is an Editor of an Institute of Mathematics and Its Applications International Journal, is an Associate Editor of several other journals and regularly contributes to international activities through conference organisation and committees of the International Federation of Automatic Control.

His extensive research interests have spanned several areas including multivariable control systems design, approximate modelling for design, repetitive control, robust and adaptive control, nonlinear recurrent networks, multi-dimensional systems theory and iterative learning control. Applications have been in the nuclear, aerospace, manufacturing and process control industries. Over the years, his research has been funded by the Engineering and Physical Sciences Research Council, the European Union and the British Council.

He is the author of over 500 refereed technical publications and the author or co-author of four texts on "Feedback and Multivariable Systems" (Peter, Peregrinus, 1979), "Multivariable and Optimal Systems" (Academic Press, 1981), "Analysis and Control of Multipass Processes" (Research Studies Press, 1982 with J B Edwards), "Stability Analysis for Linear Repetitive Processes" (Springer-Verlag Lecture Notes in Control and Mathematical Sciences 175, 1992, with E Rogers) and "Control Systems Theory and Applications for Linear Repetitive Processes" (Springer Lecture Notes in Control and Information Sciences 349, 2007, with E Rogers and K Galkowski).

Professor Tsu-Tian Lee, National Taipei University of Technology, Taiwan.

Professsor Tsu-Tian Lee received the B.S. degree in control engineering from the National Chiao-Tung University (NCTU), Hsinchu, Taiwan, in 1970, and the M.S., and Ph.D. degrees in electrical engineering from the University of Oklahoma, Norman, in 1972 and 1975, respectively. In 1975, he was appointed Associate Professor and in 1978 Professor and Chairman of the Department of Control Engineering at NCTU. In 1981, he became Professor and Director of the Institute of Control Engineering, NCTU. In 1986, he was a Visiting Professor and in 1987, a Full Professor of Electrical Engineering at the University of Kentucky, Lexington. In 1990, he was a Professor and Chairman of the Department of Electrical Engineering, National Taiwan University of Science and Technology (NTUST). In 1998, he became the Professor and Dean of the Office of Research and Development, NTUST. In 2000, he was appointed a Chair Professor, the Department of Electrical and Control Engineering, NCTU. Since 2004, he has been with the National Taipei University of Technology (NTUT), where he is now the President. Prof. Lee received the Distinguished Research Award from the National Science Council, R.O.C., in 1991–1998, and the Academic Achievement Award in Engineering and Applied Science from the Ministry of Education, R.O.C., in 1997, the National Endow Chair from the Ministry of Education, R.O.C., in 2003 and 2006, respectively, and the TECO Science and Technology Award from TECO Technology Foundation in 2003. He was elected to the grade of IEEE Fellow in 1997 .He was elected as a Fellow of IEE in 2000. He became a Fellow of New York Academy of Sciences (NYAS) in 2002. He has served as Member of Technical Program

Committee and Member of Advisory Committee for many IEEE sponsored international conferences. He is now the Vice President for Conference for the IEEE Systems, Man, and Cybernetics Society.

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: 21-23 March 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: 19-22 March 2005.

2006 IEEE International Conference on Networking, Sensing and Control
GC: MengChu Zhou; Co-GCs: Chi-Hsu (Cash) Wang
PC: Derong Liu; Co-PCs: Zo_a Lukszo and Clay Okino
Venue: Ft. Lauderdale, Florida
Date: 23-25 April 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, Shuanghua Yang
Venue: London
Date: 15-17 April 2007.

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CONFERENCE PROGRAM

Sunday, 15 April 2007

09:00 - 12:00: Registration
12:00 - 14:00: Lunch
14:00: Opening Remarks   (Howell Theatre H001) Guoping Liu, General Chair, *University of Glamorgan*
14:05 - 15 :05: Plenary Speech 1   (Howell Theatre H001) Title: Next Generation Infrastructures - Network Management and Control Challenges for the Future. Speaker: Professor Margot Weijnen Chair: David Rees, *University of Glamorgan* Co-Chair: Fei-yue Wang, *Institute of Automation, Chinese Academy of Sciences*
15:05 - 15:30: Break
15:30 - 17:30: Parallel Paper Sessions

Lecture Theatre: 061	Lecture Theatre: 063	Lecture Theatre: 065	Lecture Theatre: 067
SunE01 Sensor Networks 1	SunE02 Special Session on Networked Control Systems 1	SunE03 Control theory and Applications	SunE04 Interactive Session 1

18:00 - 20:00: Reception

Monday, 16 April 2007

08:30 - 09:30: Plenary Speech 2   (Howell Theatre H001)

Title: Iterative Learning Control: Theoretical Challenges and Applications

Speaker: David Owens, *University of Sheffield*

Chair: Hongnian Yu, *Staffordshire University*

Co-chair: Hiroshi Inaba, *Tokyo Denki University*

09:30 - 10:00: Break

10:00 - 12:00: Parallel Paper Sessions

Lecture Theatre: 061	Lecture Theatre: 063	Lecture Theatre: 065	Lecture Theatre: 067
MonM01 Special Session on Human Adaptive Mechatronics 1	MonM02 Special Session on Decision Making in Transport and Energy	MonM03 Special Session on Emergency Management Systems	MonM04 Network Security and Medical Applications

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12:00 - 13:30: Lunch

13:30 - 15:30: Parallel Paper Sessions

Lecture Theatre: 061	Lecture Theatre: 063	Lecture Theatre: 065	Lecture Theatre: 067
MonA01 Special Session on Human Adaptive Mechatronics 2	MonA02 Sensor Networks 2	MonA03 Complex System Management	MonA04 Classification and Image Processing

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15:30 - 16:00: Break

16:00 - 18:00: Parallel Paper Sessions

Lecture Theatre: 061	Lecture Theatre: 063	Lecture Theatre: 065	Lecture Theatre: 067
MonE01 Networked Control Systems Tolerant to Faults	MonE02 Instrument and Measurement	MonE03 Agent Systems and Learning	MonE04 Interactive Session 2

18:30-20:30: Banquet

Tuesday, 17 April 2007

08:30 - 09:30: Plenary Speech 3 (Howell Theatre H001)

Title: Intelligent Transportation Systems in Taiwan

Speaker: Professor Tsu-Tian Lee *National Taipei University of Technology, Taiwan*

Chair: Zofia Lukszo, *Delft University of Technology*

Co-chair: Akira Inoue, *Okayama University*

09:30 - 10:00: Break

10:00 - 12:00: Parallel Paper Sessions

Lecture Theatre: 061	Lecture Theatre: 063	Lecture Theatre: 065	Lecture Theatre: 067
TuesM01 Special Session on New Control Algorithms for Systems	TuesM02 Control of Networks: Active Queue Management	TuesM03 Collaborative Systems and Network Topology	TuesM04 Sensors and Applications

12:00 - 13:30: Lunch

13:30 - 15:30: Parallel Paper Sessions

Lecture Theatre: 061	Lecture Theatre: 063	Lecture Theatre: 065	Lecture Theatre: 067
TuesA01 Special Session on Learning,Identification and Safety Issues of Systems	TuesA02 Ad Hoc Networks and Applications	TuesA03 Actuators and Power Systems	TuesA04 Mobile Communication

15:30 - 16:00: Break

16:00 - 18:00 : Parallel Paper Sessions

Lecture Theatre: 061	Lecture Theatre: 063	Lecture Theatre: 065	Lecture Theatre: 067
TuesE01 Special Session on Networked Control Systems 2	TuesE02 Soft Computing and Applications	TuesE03 Intelligent Vehicle Highway Systems	TuesE04 Monitoring System and Virtual Environment

18:00: Closing

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TECHNICAL PROGRAM

15:30-17:30, Sunday, 15 April 2007

SunE01	Lecture Theatre: 061
Sensor Networks 1	

| Chair: Selmic, Rastko | Louisiana Tech Univ., USA |
| Co-Chair: Hou, Zeng-guang | Chinese Academy of Sciences |

15:30-15:50
Dynamic Information Fusion Driven Design of Urban Sensor Networks   pp.1-6

| Phoha, Shashi | Pennsylvania State Univ. |
| Ray, Asok | |

15:50-16:10
Autonomic Wireless Sensor Network Topology Control   pp.7-13

Tynan, Richard	Univ. Coll. Dublin
O'hare, G.. M. P.	
Ruzelli, Antonio	

16:10-16:30
Genetic Algorithm Approach for Adaptive Subcarrier, Bit, and Power Allocation   pp.14-19

| Reddy, Yenumula B | Grambling State Univ., USA |

16:30-16:50
A Power Efficient Routing Protocol for Wireless Sensor Network
pp.20-25

Zhang, Wen-ya	Chinese Academy of Sciences
Liang, Zi-ze	Chinese Academy of Sciences
Hou, Zeng-guang	Chinese Academy of Sciences
Tan, Min	Chinese Academy of Sciences

16:50-17:10
Performance of wireless Sensor Area Networks   pp.26-29

| He, Xiaoming | Univ. Coll. London |
| Pollard, John K | Univ. Coll. London |

17:10-17:30
Fault Aware Wireless Sensor Networks   pp.30-35

| Zohra, Fatima A | Louisiana Tech Univ., USA |
| Selmic, Rastko R | |

SunE02	Lecture Theatre: 063
Special Session on Networked Control Systems 1	

| Chair: Zhou, Mengchu | New Jersey Inst. of Tech. |
| Co-Chair: Hasan, M Shahidul | |

15:30-15:50
Design of Supervisory Software for Ethernet-based Control Systems   pp.36-41

Zhu, Youzhi	Chinese Academy of Sciences
Zheng, Geng	Chinese Academy of Sciences
Dong, Zhe	Chinese Academy of Sciences
Liu, G. P.	Univ. of Glamorgan

15:50-16:10
Embedded Ethernet Control Systems and Smart Node Design Method   pp.42-46

| Ju-Guang, Li | Southwest Univ. of S&T, China |
| Hua, Zhang | |

16:10-16:30
Structure Design and Application of Embedded Ethernet Based Control Systems   pp.47-51

Bian, Haibo	Chinese Academy of Sciences
Liu, G. P.	Univ. of Glamorgan
Dong, Zhe	Chinese Academy of Sciences

16:30-16:50
Networked Predictive Control System with Data Compression
pp.52-57

Hu, Wenshan	Univ. of Glamorgan, UK
Liu, G. P.	Univ. of Glamorgan
Rees, David	Univ. of Glamorgan

16:50-17:10
A Simplified GPC Algorithm of Networked Control Systems
pp.58-63

| Li, Kunjie | Chinese Academy of Sciences |
| Liu, G.P. | Univ. of Glamorgan |

17:10-17:30
Real-time Performance Analysis of Industrial Embedded Control Systems Using Switched Ethernet   pp.64-69

Wu, J. H.	Chinese Academy of Sciences
Zheng, G.	Chinese Academy of Sciences
Liu, G. P.	Univ. of Glamorgan
Li, J. G.	

SunE03	Lecture Theatre: 065
Control Theory and Applications	

| Chair: Su, Chun-Yi | Concordia Univ., Canada |
| Co-Chair: Wang, Hong | |

15:30-15:50

Model Reference Control including Adaptive Inverse Hysteresis for Systems with Unknown Input Hysteresis   pp.70-75

Wang, Yu-feng	Concordia Univ., Canada
Su, Chun-Yi	Concordia Univ., Canada
Hong, Henry	

15:50-16:10
Reference Model Based Maintenance of Control System Performance for Industrial Processes   pp.76-80

Dai, Chengwei	
Yang, Shuang-hua	Loughborough Univ., UK
Tian, Xuemin	
Xia, Bokai	

16:10-16:30
On Reduced Structure Control and the 1-norm regularisation
pp.81-86

Nobakhti, Amin	The Univ. of Manchester, UK
Brown, Martin	
Wang, Hong	

16:30-16:50
Incremental Sliding Mode Controller for Large-Scale Underactuated Syetem   pp.87-92

Hao, Yinxing	Chinese Academy of Sciences
Yi, Jianqiang	Chinese Academy of Sciences
Zhao, Dongbin	
Qian, Dianwei	

16:50-17:10
An Intelligent Control System for Thermal Processing of Biomaterials   pp.93-98

Yang, Simon X	Univ. of Guelph, Canada
Martynenko, Alex I	Univ. of Guelph, Canada

17:10-17:30
Decentralized Control with Optimal Control Allocation
pp.99-104

Liu, Weirong	Chinese Academy of Sciences
Yi, Jianqiang	Chinese Academy of Sciences
Zhao, Dongbin	

SunE04	Lecture Theatre: 067
Interactive Session 1	

Delayed Cash Payment, Receivable and Inventory Management
pp.105-110

Chen, Jia	Inst. of System Science, China
Chao, Xiuli	
Wang, Shouyang	

Web User's Access Path Clustering   pp.111-114

Li, Jihong	Shanxi Univ.,China
Song, Yijun	
Wang, Kaihua	

Memoryless State Feedback Controller Design for Networked Control Systems   pp.115-118

Wang, Shuo	Yanshan Univ., China
Guan, Xinping	
Hua, Changchun	

Adaptive Recursive Filters Identification Algorithm of Eliminating the Disturbance on the basis of Hyperstable   pp.119-122

Cai, Manjun	Yanshan Univ., China
Wang, Xiangju	

A Note on Minimal Positive Realizations of Continuous-Time Linear Systems   pp.123-128

Sun, Yuwei	Inst. of Automation, China
Yu, Wensheng	Chinese Academy of Sciences
Wang, Long	Beijing Univ.

Modeling Hysteresis Inverse in Piezoelectric Actuators Based on Inverse Hysteretic Operator   pp.129-132

Tan, Yonghong	Guilin Univ. of Electronic Tech.

10:00-12:00, Monday, 16 April 2007

MonM01	Lecture Theatre: 061
Special Session on Human Adaptive Mechatronics 1	
Chair: Uchikawa, Y.	Tokyo Denki Univ., Japan
Co-Chair: Ito, Masayasu	Tokyo Denki Univ., Japan

10:00-10:20
Estimating multiple sources in somatosensory area to SEF of finger stimulus using SVD and time-frequency analysis
pp.133-138

Kim, Bong-Soo	Tokyo Denki Univ., Japan
Uchikawa, Yoshinori	Tokyo Denki Univ., Japan

10:20-10:40
A novel approach for Self-Localization based on Computer Vision and Artificial Marker Deposition   pp.139-144

Chhaniyara, Savan	King's Coll. London
	Univ. of Mutah
Althoefer, K.	
Seneviratne, L. D.	
Zweiri, Y. H.	

10:40-11:00
Associative Memory for Noisy and Structurally Deformed Two Dimensional Images Using Neural Networks   pp.145-150

Inaba, Hiroshi	Tokyo Denki Univ., Japan
Takahashi, Tomoki	
Alimhan, Keylan	

11:00-11:20
Optimization and Control of a Pendulum-driven Cart-pole System
pp.151-156

Liu, Yang	Staffordshire Univ., UK
Yu, Hongnian	Staffordshire Univ., UK
Burrows, Brian	

11:20-11:40
Extraction of fine blood vessels from an ultrasound image by an adaptive local image processing   pp.157-162

Ito, Masayasu	Tokyo Denki Univ., Japan
Saito, Yuzuru	

11:40-12:00
Robust Gradient-based Iterative Learning Control   pp.163-168
   Owens, D. H.
   Hätönen, J.
   Daley, S.

MonM02	Lecture Theatre: 063

Special Session on Decision Making in Transport and Energy

   Chair: Lukszo, Zofia   Delft Univ. of Tech.
   Co-Chair: Wang, Fei-yue   Chinese Academy of Sciences

10:00-10:20
Road Traffic Signals Modeling and Analysis with Petri nets and Linear Logic   pp.169-174
   Soares, M. dos Santos
   Vrancken, J.

10:20-10:40
Efficient implementation of serial multi-agent model predictive control by parallelization   pp.175-180
   Negenborn, R.R.
   Schutter, B. De
   Hellendoorn, J.

10:40-11:00
Better design and operation of infrastructures through bi-level decision making   pp.181-186
   Lukszo, Z.
   Heijnen, P.

11:00-11:20
Planning the Location of Intermodal Freight Hubs: an Agent Based Approach   pp.187-192
   Dam, K. van
   Lukszo, Z.
   Ferreira, L.
   Sirikijpanichkul, A.

11:20-11:40
Adaptive dynamic control for road traffic signals   pp.193-198
   Heydecker, Benjamin G   Univ. Coll. London, UK
   Cai, Chen
   Wong, CK

11:40-12:00
Signal Controller Design for Agent-Based Traffic Control System
pp.199-204
   Li, Zhenjiang   Chinese Academy of Sciences
   He, Feng
   Yao, Qingming
   Wang, Fei-yue   Chinese Academy of Sciences

MonM03	Lecture Theatre: 065

Special Session on Emergency Management Systems

   Chair: Wang, Jiacun   Monmouth Univ., USA
   Co-Chair: Rees, David   Univ. of Glamorgan

10:00-10:20
Dynamic project management and its application on public

incidents emergency response system   pp.205-208
   Zhou, Xianzhong   Nanjing Univ., China
   Sheng, Zhaohan
   Zhao, Jiabao
   Ling, Haifeng
   Hou, Yunzhang

10:20-10:40
An Observer-Based Chaotic Synchronization Scheme for Time-Delay Secure Communication Systems   pp.209-211
   Chen, Xuemin   Texas Southern Univ.
   Wang, Zidong   Brunel Univ., UK

10:40-11:00
Decentralized Trust Management based on the Reputation of Information Sources   pp.212-217
   Yu, Meng   Monmouth Univ., USA
   Zang, Wanyu
   Reagor, Barbara

11:00-11:20
Inter-organizational workflow modeling and analysis of incident command systems   pp.218-223
   Wang, Jiacun   Monmouth Univ., USA
   Rosca, Daniela

11:20-11:40
A Location Management Scheme with Reinforcement Learning for PCS Networks   pp.224-227
   Zhu, Yihua   Zhejing Univ. of Tech., China
   Xiao, Gang
   Li, Zhi-yun
   Zhu, Fan

11:40-12:00
On Petri Net Modeling Of Automated Manufacturing Systems
pp.228-233
   Wu, Naiqi   Guangdong Univ. of Tech., China
   Zhou, Mengchu   New Jersey Inst. of Tech.

MonM04	Lecture Theatre: 067

Network Security and Medical Applications

   Chair: Fone, William   Univ. Stafford, UK
   Co-Chair: Istepanian, H.

10:00-10:20
A New Anti-Spam Protocol Using CAPTCHA   pp.234-238
   Shirali-shahreza, Sajad   Sharif Univ. of Tech., Iran
   Movaghar, Ali   Sharif Uni. of Tech., Iran

10:20-10:40
Implementation of Elliptic-Curve Cryptography on Mobile Healthcare Devices   pp.239-244
   Malhotra, Khamish   Univ. of Glamorgan, UK
   Gardner, Stephen
   Patz, Ralf

10:40-11:00
Medical Quality of Service for Wireless Ultrasound Streaming in Robotic Tele- Ultrasonography System   pp.245-250
   Philip, Nada   Kingston Univ., UK

Istepanian, Robert S. H.

11:00-11:20
Designing and Managing Networks to Aid the Capture and Preservation of Evidence to support the Fight Against e-Crime
pp.251-254
Fone, William   Univ. Stafford, UK
Paul, Wright

11:20-11:40
Mdodelling Terrorism   pp.255-260
Hackworth, Timothy
Treleaven, Phillip

11:40-12:00
Analysis of a Simple Feedback Scheme for Error Correction over a Lossy Network   pp.261-266
Flardh, Oscar
Fischione, Carlo
Johansson, Karl H.
Johansson, Mikael

13:30-15:30, Monday, 16 April 2007

MonA01   Lecture Theatre: 061
Special Session on Human Adaptive Mechatronics 2
Chair: Jiang, Zhao-Hui   Hiroshima Inst. of Tech.
Co-Chair: Althoefer, Kaspar

13:30-13:50
Towards Robot-Assisted Mass-Casualty Triage   pp.267-272
Chang, Carolina   Universidad Simon Bolivar
Murphy, Robin R

13:50-14:10
Unstable Object Stabilization and Control Using a DD Robot Manipulator   pp.273-278
Jiang, Zhao-Hui   Hiroshima Inst. of Tech.
Kamise, Kouya

14:10-14:30
Dynamic Analysis and Traversability Prediction of Tracked Vehicles on Soft Terrain   pp.279-284
Al-milli, Said   King's Coll., Univ. of London
Althoefer, Kaspar
Seneviratne, Lakmal D.

14:30-14:50
Ceiling Light Landmarks Based Localization and Motion Control for a Mobile Robot   pp.285-290
Wang, Hongbo   DAIHEN Corporation, Japan
Kong, Lingfu
Yu, Hongnian   Staffordshire Univ., UK

14:50-15:10
A Mechatronic System Design Case Study: Adaptive Modeling and Control of an Inverted Pendulum   pp.291-296
Ghazi, Seyed Salahadin   Iran Univ. of S&T., Iran

Mirsaeid
Zarei, Anahita

15:10-15:30
A calibration test of Stewart platform   pp.297-301
Zhang, Yong   Shanghai Jiaotong Univ., China
Gao, Feng   Shanghai Jiaotong Univ., China

MonA02   Lecture Theatre: 063
Sensor Networks 2
Chair: Tan, Min   Chinese Academy of Sciences
Co-Chair: Selmic, Rastko R.

13:30-13:50
Improved estimation for object localization via sensor networks
pp.302-306
Chisci, Luigi
Benavoli, Alessio

13:50-14:10
Human Activity Recognition from Environmental Background Sounds for Wireless Sensor Networks   pp.307-312
Zhan, Yi   Keio Univ., Japan
Miura, Shun
Nishimura, Jun
Kuroda, Tadahiro

14:10-14:30
Wireless Sensor Network Modeling Using Modified Recurrent Neural Networks: Application to Fault Detection   pp.313-318
Moustapha, Azzam I.   Louisiana Tech Univ., USA
Selmic, Rastko R.

14:30-14:50
A Wireless Sensor Network Used in Coal Mines   pp.319-323
Bai, Meng   Chinese Academy of Sciences
Zhao, Xiaoguang
Hou, Zeng-guang   Chinese Academy of Sciences
Tan, Min   Chinese Academy of Sciences

14:50-15:10
Deploying a Wireless Sensor Network on the Coal Mines
pp.324-328
Wang, Xiaodong   Chinese Academy of Sciences
Zhao, Xiaoguang
Liang, Zize
Tan, Min   Chinese Academy of Sciences

15:10-15:30
Analysis of power consumption for different sensor access modes
pp.329-333
Zhu, Zhenhuan   Loughborough, UK
Yang, Shuanghua

MonA03   Lecture Theatre: 065
Complex System Management
Chair: Atkins, Anthony
Co-Chair: Wu, Wenyan   Univ. Stafford, UK

13:30-13:50

Modeling and Optimization of multiple product FMS using Colored Petri Net and Design of Experiment   pp.334-339

Aized, Tauseef   Tokyo Inst. of Tech., Japan
Takahashi, Koji
Hagiwara, Ichiro

13:50-14:10

Mixed domain analysis of MIMO dynamic interactions
pp.340-344

Salgado, Mario E   UTFSM, Chile
Yuz, Juan I

14:10-14:30

Harbin Water Supply Network Monitoring and Evaluation
pp.345-349

qian, Zu
Gao, JinLiang   Harbin Inst. of Tech., China
Wu, WenYan   Univ. Stafford, UK
Hou, X Q
Wu, YingBin
Tao, L
Ran, Ning

14:30-14:50

Assessing and Optimizing Online Monitoring for Securing the Water Distribution System   pp.350-355

Wu, Wenyan   Univ. Stafford, UK
Gao, Jinliang   Harbin Inst. of Tech., China
Zhao, Ming
Zu, Qian

14:50-15:10

Inventory Management Simulation using a Novel Replenishment Algorithm   pp.356-361

Zheng, Xin   Staffordshire Univ., UK
Yu, Hongnian   Staffordshire Univ., UK
Atkins, Anthony

MonA04	Lecture Theatre: 067
Classification and Image Processing	

Chair: Liu, Derong   Univ. of Illinois, USA
Co-Chair: Phoha, Vir V   Louisiana Tech Univ., USA

13:30-13:50

A Fuzzy Classifier with Adaptive Learning of Norm Inducing Matrix   pp.362-367

Yao, Leehter   National Taipei Univ. of Tech.
Yang, Tze

13:50-14:10

Clustering with a Weighted Sum Validity Function Using a Niching PSO Algorithm   pp.368-373

Sun, Changyin   Hohai Univ., China
Liang, Hua   Hohai Univ., China
Li, Linfeng
Liu, Derong   Univ. of Illinois, USA

14:10-14:30

A Divergence-measure Based Classification Method for Detecting Anomalies in Network Traffic   pp.374-379

Phoha, Vir V   Louisiana Tech Univ., USA
Balagani, Kiran S
Kuchimanchi, Gopi K

14:30-14:50

Visual Detection of High Capacity Natural Image Steganography: Is A Known Cover Effective?   pp.380-385

Watters, Paul A   Macquarie Univ., Australia
Martin, Frances
Stripf, Steffen

14:50-15:10

A Face Hashing Algorithm using Mutual Information and Feature Fusion   pp.386-391

Zeng, Zhao   Macquarie Univ., Australia
Watters, Paul

15:10-15:30

High-Density Surface Reconstruction of Fine Arts and Documents for Complete Reproduction and Counterfeit Detection
pp.392-397

Doi, Junta   The Univ. of Tokyo, Japan
Shimizu, Kentaro
Sekijima, Masakazu

16:00-18:00, Monday, 16 April 2007

MonE01	Lecture Theatre: 061
Networked Control Systems Tolerant to Faults	

Chair: Kambhampati, C.   Univ. of Hull
Co-Chair: Irwin, G. W.   Queen's Univ. Belfast, UK

16:00-16:20

Adaptive and Cooperative Sampling in Networked Control Systems   pp.398-403

Zhang, P.
Ding, S. X.
Patton, R. J.
Kambhampati, C.   Univ. of Hull

16:20-16:40

A Co-Design Solution for Wireless Feedback Control
pp.404-409

Colandairaj, Jeremy
Irwin, George W   Queen's Univ. Belfast, UK
Scanlon, William G

16:40-17:00

Accommodation of Delays for Networked Control Systems Using Classification of Service   pp.410-415

Diouri, Idriss
Georges, Jean-Philippe   Nancy-Univ., France
Rondeau, Eric

17:00-17:20

Fault Tolerant Control in NCS Medium Access Constraints
pp.416-424

Klinkhieo, Supat   The Univ. of Hull

Kambhampati, C.   Univ. of Hull
Patton, R. J.

17:20-17:40

Optimisation of Networked Control Systems Using Model-based Safety Analysis Techniques   pp.425-430

     Parker, David J
     Papadopoulos, Yiannis I

17:40-18:00

Consensus in Noisy Switching Directed Networks with Time-Delays   pp.431-436

     Rum, Farshad   Concordia Univ., Canada
     Gordon, Brandon W.
     Eghtesad, Mohammad

MonE02	Lecture Theatre: 063
Instrument and Measurement	

     Chair: Tian, Gui Yun   Univ. of New Castle
     Co-Chair: Yang, S. X.

16:00-16:20

Detection and Measurement of Thin Dielectric Layers Using Reflection of Frequency Scanned Millimetric Waves   pp.437-442

     Bowring, Nicholas John   Manchester Metropolitan Univ.
     Baker, John G
     Alder, John F

16:20-16:40

A Review of Concealed Weapon Detection and Research in Perspective   pp.443-448

     Agurto, Alan   Univ. of Huddersfield, UK
     Li, Yong
     Tian, Gui Yun   Univ. of New Castle
     Bowring, Nick
     Lockwood, Stephen

16:40-17:00

Advanced Instrumentation For Sound Monotoring   pp.449-454

     Atmoko, Hidajat   Newcastle Univ., UK
     Tian, Gui Yun   Univ. of New Castle

17:00-17:20

Development of a New Electronic Nose for Odour Measurement Utilizing Wireless Sensor Networks   pp.455-459

     Charles, R   Univ. of Guelph
     Krupin, Y
     Holstead, J
     Trcka, A
     Pan, L.
     Yang, S. X.

17:20-17:40

Development of a Portable EEG Monitoring System based on WLAN   pp.460-465

     Chen, Haifeng   NEC Laboratories America, USA
     Ye, Donghee
     Lee, Jungtea

17:40-18:00

Flash Crowd Detection Using Decoy Hyperlinks   pp.466-470

Gavrilis, Dimitris   Univ. of Patras, Greece
Chatzis, Ioannis
Dermatas, Evangelos

MonE03	Lecture Theatre: 065
Agent Systems and Learning	

     Chair: Yang, Hongji   De Montfort Univ., UK
     Co-Chair: Tang, Ying   Rowan Univ., USA

16:00-16:20

Smart Cluster Bombs - Control of Multi-agent Systems for Military Applications   pp.471-476

     Ekanayake, Samitha Wathsala   Deakin Univ., Australia
     Pathirana, Pubudu N

16:20-16:40

Reconciling Group and Individual Preferences of Multi-Agent Systems   pp.477-482

     Stirling, Wynn   Brigham Young Univ., USA
     Frost, Richard

16:40-17:00

Enforcing Role-Based Access Controls in Software Systems with an Agent Based Service Oriented Approach   pp.483-488

     Chen, Feng   De Montfort Univ., UK
     Li, Shaoyun   De Montfort Univ., UK
     Yang, Hongji   De Montfort Univ., UK

17:00-17:20

A Learning Strategy for Disassembly Process Planning
pp.489-494

     Tang, Ying   Rowan Univ., USA
     Grochowski, David E

17:20-17:40

Combined Support Vector Novelty Detection for Multi-channel Combustion Data   pp.495-500

     Clifton, Lei A.   Univ. of Manchester
     Yin, Hujun   Univ. of Manchester
     Clifton, David A.   Univ. of Oxford, UK
     Zhang, Yang   Univ. of Manchester

MonE04	Lecture Theatre: 067
Interactive Session 2	

Analysis on Kinematics and Dynamics Performance indices for 6-PUS Parallel Robot Mechanism   pp.501-506

     Zhang, Shihui   Yanshan Univ., China
     Kong, Lingfu

Kinematics and Control for a Personal Robot with Five Degrees-of-freedom Arms   pp.507-512

     Wang, Hongbo   DAIHEN Corporation, Japan

A Study on Multiple user-classes Dynamic traffic assignment
pp.513-518

     Li, Runmei   Beijing Jiaotong Univ.
     Tang, Sharron

Agent Selection and P2P Overlay Construction Using Global Locality Knowledge   pp.519-524

Zhang, Guoqiang	Chinese Academy of Sciences
Zhang, Guoqing	Chinese Academy of Sciences

A Multi-constrained Quality of Service Routing Based on Metrics Transform pp.525-529

Yu, Wang	Univ. of Electronic S&T., China
Lemin, Li	
Du, Xu	

A CORBA-based Integrated Platform for Service Publishing, Searching and Sharing in Virtual Enterprise pp.530-535

Cheng, Tao	Shenzhen Univ.

10:00-12:00, Tuesday, 17 April 2007

TuesM01   **Lecture Theatre: 061**
Special Session on New Control Algorithms for Systems

Chair: Inoue, Akira	Okayama Univ., Japan
Co-Chair: Yamamoto, T.	Hiroshima Univ.

10:00-10:20
GPC-Based PID Controller Using a Stable Time-Varying Proportional Gain pp.536-541

Sato, Takao	Univ. of Hyogo, Japan
Inoue, Akira	Okayama Univ., Japan
Yamamoto, Toru	Hiroshima Univ., Japan

10:20-10:40
An Extension of Two Degree-of-Freedom of Self-Tuning GPC Based on State-space Approach Using Coprime Factorization Approach pp.542-546

YANOU, Akira	Kinki Univ., Japan
INOUE, Akira	Okayama Univ., Japan
MASUDA, Shiro	Tokyo Metropolitan Univ., Japan

10:40-11:00
Design of a Data-Driven PID Controller pp.547-552

Yamamoto, Toru	Hiroshima Univ., Japan
Shah, Sirish L	

11:00-11:20
Feedback properties of model predictive control for max-plus-linear systems pp.553-558

Masuda, Shiro	Tokyo Metropolitan Univ., Japan
Goto, Hiroyuki	

11:20-11:40
Swing-up and stabilizing control system design for an Acrobot pp.559-561

Inoue, Akira	Okayama Univ., Japan
Deng, Mingcong	Okayama Univ.
Hara, S.	
Henmi, Tomohiro	

11:40-12:00
Networked Control of PEM Fuel Cells Using an Adaptive Predictive Control Approach pp.562-567

Tong, Shiwen	Chinese Academy of Sciences
Liu, G. P.	Univ. of Glamorgan

TuesM02   **Lecture Theatre: 063**
Control of Networks: Active Queue Management

Chair: Hossain, Alamgir	Univ. of Bradford, UK
Co-Chair: Yang, Shuang-hua	Loughborough Univ., UK

10:00-10:20
Active Queue Management Controller using Smith Predictor for Time Delay Networks pp.568-573

Alasem, Rafe Khalaf	Bradford Univ., UK
Hossain, Alamgir M	
Awan, Irfan Ullah	

10:20-10:40
Switching Resilient PI Controllers for Active Queue Management of TCP Flows pp.574-578

Üstebay, Deniz	
Özbay, Hitay	

10:40-11:00
Two Different Approaches of Active Queue Management pp.579-583

Ali, Abdulmonam Geat	Bradford Univ., UK
Woodward, M.E.	
Etbega, Mahmud	

11:00-11:20
Queue Length Based Internet Congestion Control pp.584-589

Lestas, Marios	Univ. of Cyprus, Cyprus
Pitsillides, Andreas	
Ioannou, Petros	
Hadjipollas, George	

11:20-11:40
An Average Queue Weight Parameterization in a Network Supporting TCP Flows with RED pp.590-595

Chen, Wu	
Li, Yunqiu	Loughborough Univ., UK
Yang, Shuang-hua	Loughborough Univ., UK

11:40-12:00
Adaptive Network Flow Clustering pp.596-601

Chen, Zhixiong	Mercy Coll., USA
Song, Sui	

TuesM03   **Lecture Theatre: 065**
Collaborative Systems and Network Topology

Chair: Deng, Mingcong	Okayama Univ.
Co-Chair: Wu, Wenyan	Univ. Stafford, UK

10:00-10:20
An Architecture to Support Multi-node Downloading of Distributed Virtual Environment on Grid pp.602-607

Wang, Yuying	De Montfort University, UK
Lu, Guanghua	
Jia, Yuanyuan	

10:20-10:40
The First Step for Self-Assembling Process in a System: A Picking-Up a Module Algorithm pp.608-613

Kim, M.   Woongjin Coway/Massachusetts Inst. of Tech.

10:40-11:00
The Pancyclicity of m-ary n-cube Networks   pp.614-617
   Liu, Hongmei   China Three Gorges Univ.

11:00-11:20
A Performance Guaranteed New Algorithm for Fault-Tolerant Routing in m-ary n-cube Networks   pp.618-621
   Liu, Hongmei   China Three Gorges Univ.

11:20-11:40
A Hybrid Marker-Based Camera Tracking Approach In Augmented Reality   pp.622-627
   Yang, Po   Staffordshire Univ., UK
   Wu, Wenyan   Univ. Stafford, UK
   Moniri, Mansour

11:40-12:00
Optimal Control and Game Theoretic Approach to Cooperative Control of a Team of Multi-Vehicle Unmanned Systems pp.628-633
   Kazerooni, Elham Semsar   Concordia Univ., Canada
   Khorasani, Khashayar

TuesM04	**Lecture Theatre: 067**

Sensors and Applications
   Chair: Wright, David
   Co-Chair: Griffiths, Alison L   Staffordshire Univ., UK

10:00-10:20
Simultaneous estimation of optical flow and object state: A modified approach to optical flow calculation   pp.634-638
   Pathirana, Pubudu   Deakin Univ., Australia
   Nishantha
   Lim, Allan
   Carminati, John
   Premaratne, Malin

10:20-10:40
Covering Assisted Living Key Areas based on Home Automation Sensors   pp.639-643
   Litz, Lothar   Univ. of Kaiserslautern, Germany
   Gross, Melanie

10:40-11:00
Wireless Networked -Based Sensing for Protection and Decentralized Control of Critical rastructures   pp.644-649
   Gadze, James D   Florida International Univ., USA

11:00-11:20
Sensor Relevance Establishment Problem   pp.650-655
   Gulrez, Tauseef   Macquarie Univ., Australia

11:20-11:40
A Smart Vision Sensor for Detecting Risk Factors of a Toddler's Fall in a Home Environment   pp.656-661
   Na, Hana   Brunel Univ., UK
   Qin, Sheng Feng
   Wright, David

11:40-12:00
A Centralized Omnidirectional Multi-Camera System with Peripherally-Guided Active Vision and Depth Perception pp.662-667
   Jankovic, Nicholas D
   Naish, Michael D   Univ. of Western Ontario, Canada

13:30-15:30, Tuesday, 17 April 2007

TuesA01	**Lecture Theatre: 061**

Special Session on Learning, Identification and Safety Issues of Systems
   Chair: Inoue, Akira   Okayama Univ., Japan
   Co-Chair: Deng, Mingcong   Okayama Univ.

13:30-13:50
Output Frequencies of Nonlinear Systems Under A General Input pp.668-673
   Wu, Xiaofeng   The Univ. of Sheffield, UK
   Lang, Z Q
   Billings, S. A.

13:50-14:10
Abstraction and compression of information utilizing real world for controlling remote controlled robot - Application to snake-like robot   pp.674-679
   Ito, Kazuyuki   Hosei Univ., Japan
   Murai, Ryoichi

14:10-14:30
Safety Assessment for Power Plants using Analytical Hierarchy Process and System Functionality   pp.680-684
   Yuan, Xiaobo
   Yang, Zongxiao   Henan Univ. of S&T., China
   Cheng, Chuanye
   Inoue, Akira   Okayama Univ., Japan
   Deng, Mingcong   Okayama Univ.

14:30-14:50
Evolutionary Computation on Multitask Reinforcement Learning Problems   pp.685-688
   Handa, Hisashi   Okayama Univ., Japan

14:50-15:10
An obstacle avoidance method for two wheeled mobile robot pp.689-692
   Deng, Mingcong   Okayama Univ.
   Inoue, Akira   Okayama Univ., Japan
   Shibata, Yoshiteru
   Sekiguchi, K.
   Ueki, Nobuyuki

TuesA02	**Lecture Theatre: 063**

Ad Hoc Networks and Applications
   Chair: Griffiths, Alison L   Staffordshire Univ., UK
   Co-Chair: Liao, Rui

13:30-13:50

Designing an Implementable User-Oriented Objective Function for MANETs pp.693-698

Haigh, Karen   BBN Technologies, USA
Olofinboba, Olu   Honeywell Labs
Tang, Choon Y   Univ. of Oklahoma

13:50-14:10

Simulation of Distributed Wireless Networked Control Systems over MANET using OPNET pp.699-704

Hasan, Mohammad Shahidul   Staffordshire Univ., UK
Yu, Hongnian   Staffordshire Univ., UK
Griffiths, Alison L   Staffordshire Univ., UK
Yang, Tai C

14:10-14:30

Study on QoS Support in 802.11e-based Multi-hop Vehicular Wireless Ad Hoc Networks pp.705-710

Niu, Zeyun   Brunel Univ., UK
Yao, Wenbing   Brunel Univ., UK
Ni, Qiang
Song, Yonghua

14:30-14:50

A Real-Time Simulation of WNCS with MANET using a Bi-Directional Interface between MATLAB and OPNET pp.711-716

Harding, Christopher A
Griffiths, Alison L   Staffordshire Univ., UK
Hongian, Yu

14:50-15:10

Stable Power Control in Ad-Hoc Wireless Networks pp.717-722

Huijberts, Henri   Queen mary, Univ. of london, UK
Liao, Rui

15:10-15:30

Super-resolution TOA Estimation in OFDM Systems for Indoor Environments pp.723-728

Zhao, Fang
Yao, Wenbing   Brunel Univ., UK
Logothetis, Catharina Carlemalm   Uppsala Univ., Sweden
Song, Yonghua

TuesA03	Lecture Theatre: 065
Actuators and Power Systems	

Chair: Zhu, Z.q.   Univ. of Sheffield,UK.
Co-Chair: Wane, Samuel Oliver   Staffordshire Univ., UK

13:30-13:50

Intelligent Actuator Control in On-Board ISHM Concept pp.729-733

Figueroa, Fernando   Stennis Space Center,USA
Selmic, Rastko   Louisiana Tech Univ., USA
Jethwa, Dipan

13:50-14:10

Improved Signal Injection Based Sensorless Technique for PM Brushless AC Drives pp.734-739

Li, Y.   Univ. of Sheffield,UK.
Zhu, Z.q.   Univ. of Sheffield,UK.
Bingham, C.m.   Univ. of Sheffield, UK
Howe, D.   Univ. of Sheffield, UK

14:10-14:30

Estimation of Winding Resistance and PM Flux-Linkage in Brushless AC Machines by Reduced-Order Extended Kalman Filter pp.740-745

Zhu, Z.q.   Univ. of Sheffield,UK.
Zhu, X.
Sun, P.d.
Howe, D.   Univ. of Sheffield, UK

14:30-14:50

The development of a reaction drive for a propulsion mechanism pp.746-750

Wane, Samuel Oliver   Staffordshire Univ., UK
Yu, Hongnian   Staffordshire Univ., UK
Yang, Tai   Univ. of Sussex

14:50-15:10

DC-DC Intelligent Power Regulator Design Using Wavelet Neural Network pp.751-756

Hsu, Chun-fei   National Chiao-Tung Univ.
Lee, Tsu-tian   National Taipei Univ. of Tech.
Hung, Kun-neng

TuesA04	Lecture Theatre: 067
Mobile Communication	

Chair: Min, Geyong   Univ. of Bradford, UK
Co-Chair: Hossain, Alamgir   Univ. of Bradford, UK

13:30-13:50

Congestion Control in Multi-Source Communication Networks – a Time-Varying Sampling Period System Case Study pp.757-762

Bartoszewicz, Andrzej   Technical Univ. of Łódz, Poland
Ignaciuk, Przemyslaw

13:50-14:10

Model-based congestion control: Performance and simulations pp.763-768

Floret, Fabienne   Universit´e Paris, France
Raynaud, Henri-françois
Kulcsar, Caroline

14:10-14:30

Flow-Decomposition for Modelling and Analysis of GPS Mechanism under Self-Similar Network Traffic pp.769-774

Jin, Xiaolong   Univ. of Bradford, UK
Min, Geyong   Univ. of Bradford, UK

14:30-14:50

Smart Aggregates: a Distributed Intelligent Multi-purpose Sensor Network (DIMSN) for Civil Structures pp.775-780

Song, Gangbing   Univ. of Houston, USA
Gu, Haichang   The Univ. of Houston, USA
YL, Mo

14:50-15:10

Joint Channel and Velocity Estimation pp.781-786

Logothetis, C. C.   Uppsala Univ., Sweden
Yao, Wenbing   Brunel Univ., UK
Logothetis, Andrew

15:10-15:30

FPCM-Assisted Blind Channel Equalization of M-QAM Signals for Time-Varying Channels pp.787-791

Lain, Jenn-kaie   National Yunlin Univ. of S&T, TW
Huang, Chia-tai

16:00-18:00, Tuesday, 17 April 2007

TuesE01   **Lecture Theatre: 061**

Special Session on Networked Control Systems 2

Chair: Chen, Jie   Beijing Inst. of Tech.
Co-Chair: Xia, Yuanqing   Beijing Inst. of Tech.

16:00-16:20

Observer-based H-infinity control for a class of nonlinear networked systems pp.792-797

Sun, Jian   Chinese Academy of Sciences
Liu, G. P.   Univ. of Glamorgan

16:20-16:40

State Feedback Controller Design for Networked Control System with Random Network-Induced Delay and Packet Loss
pp.798-802

Tang, Bin   Central South Univ., China
Liu, Guoping   Univ. of Glamorgan
Gui, Wei-Hua   Central South Univ., China

16:40-17:00

Information Stream Based Network Dynamic Reconfiguration
pp.803-807

Chen, Jie   Beijing Inst. of Tech.
Chen, Chen   Beijing Inst. of Tech.
Dou, Lihua

17:00-17:20

Time Delay Compensation and Stability Analysis of Networked Predictive Control Systems Based on Hammerstein Model
pp.808-811

Zhao, Y.B.   Univ. of Glamorgan
Liu, G.P.   Univ. of Glamorgan
Rees, D.   Univ. of Glamorgan

17:20-17:40

3D-structure Modeling for Regular Segments of Low Homology Unknown Structure Protein pp.812-814

Zhang, Yanmei
Peng, Zhihong   Beijing Inst. of Tech.

17:40-18:00

Stability Analysis of Networked Predictive Control Systems with Random Network Delay pp.815-820

Xia, Yuanqing   Beijing Inst. of Tech.
Liu, G. P.   Univ. of Glamorgan
Chen, J.

Rees, D.   Univ. of Glamorgan

TuesE02   **Lecture Theatre: 063**

Soft Computing and Applications

Chair: Wu, Qidi
Co-Chair: Yang, Hongji   De Montfort Univ., UK

16:00-16:20

A Block Deepening Genetic Programming for Scheduling of Direct Load Control pp.821-827

Yao, Leehter   National Taipei Univ. of Tech.
Hsu, Tsong-hai
Lin, Chin-chin
Lin, Cheng-han

16:20-16:40

Fast detection of disconnection using adaptive Fuzzy Logic
pp.828-833

Tzvetkov, Vesselin   Arcor AG&Co KG, Germany

16:40-17:00

A Novel Soft Computing Model Using Adaptive Neuro-Fuzzy Inference System for Intrusion Detection pp.834-839

Toosi, Adel Nadjaran   Ferdowsi Univ. Of Mashhad, Iran
Kahani, Mohsen

17:00-17:20

A Three-Level-Module Adaptive Intrusion Detection System
pp.840-845

Dai, Yaping   Beijing Inst. of Tecnology
Zhao, Linhui
Wang, Yumin
Xiao, Jing   BeiJing Inst. of Tech.
Dong, Fangyan

17:20-17:40

Evaluation Mode Research on Intelligent Particle Swarm Optimization Algorithm pp.846-851

Kang, Qi   Tongji Univ., China
Wang, Lei   Tongji Univ., China
Wu, Qidi

17:40-18:00

Data Collection for Intrusion Detection System Based on Stratified Random Sampling pp.852-855

Zhao, Kuo   Jilin Univ., China
Zhang, Meng
Yang, Kexin
Hu, Liang

TuesE03   **Lecture Theatre: 065**

Intelligent Vehicle Highway Systems

Chair: Zhang, Xu   Mayer Brown Limited, UK
Co-Chair: Huang, Yi-sheng   ChungCheng Inst. of Tech

16:00-16:20

Traffic Intelligent Optimization and Local Traffic-Flow Control Inside Shanghai-EXPO-Area pp.856-861

Wang, Lei   Tongji Univ., China
Kang, Qi   Tongji Univ., China

Xiao, Hui
Wu, Qidi

16:20-16:40
A Supervisor of Traffic Light Systems Using Statecharts
pp.862-867
  Huang, Yi-sheng   ChungCheng Inst. of Tech., TW
  Lee, Shung-shing
  Liu, Yung-kuer

16:40-17:00
A CAN and OSEK NM Based Siren for Automobiles   pp.868-873
  Qiao, Xin   Chinese Academy of Sciences
  Wang, Zhixue
  Sun, Yuan
  He, Feng
  Wang, Fei-yue   Chinese Academy of Sciences

17:00-17:20
Study on Visual Servo Measurement for Vehicle Geometric Parameters   pp.874-878
  Sun, Lisheng   Southeast Univ., China
  Zhu, Ke

17:20-17:40
Simulation and Visualization of Empirical Traffic Models Using VISSIM   pp.879-882
  Chen, Heng   Univ. of Glamorgan, UK
  Zhang, Xu   Mayer Brown Limited, UK
  Liu, G. P.   Univ. of Glamorgan

TuesE04   **Lecture Theatre: 067**
Monitoring System and Virtual Environment
  Chair: Zhengxu, Zhao   Derby Univ.
  Co-Chair: Hou,   Chinese Academy of Sciences

Zeng-guang

16:00-16:20
Real-time Monitoring System for Odours around Livestock Farms
pp.883-888
  Pan, Leilei   Univ. of Guelph, Canada
  Liu, Rui
  Peng, Shaohong
  Yang, Simon X.   Universoty of Guelph, Canada
  Gregori, Stefano

16:20-16:40
Intelligent Monitoring System Based on the Embedded Technology: A Case Study   pp.889-894
  Liang, Xiao   Chinese Academy of Sciences
  Hou, Zeng-guang   Chinese Academy of Sciences
  Tan, Min   Chinese Academy of Sciences

16:40-17:00
A ZigBee-Based Power Monitoring System with Direct Load Control Capabilities   pp.895-900
  Cheng, Jui-Yu
  Hung, Min-Hsiung   National Defense Univ., TW

17:00-17:20
Generalised Interfacing with Microprocessor System Hardware Monitors   pp.901-906
  Murenin, Constantine A.   East Carolina Univ., USA

17:20-17:40
Study on Action Control of Virtual Actors   pp.907-912
  Wenhu, Qin   Southeast Univ., China
  Xiaomei, Liu
  Zhengxu, Zhao   Derby Univ.

AUTHOR INDEX

C=Chair, CC=Co-Chair

Hagiwara, Ichiro	MonA03	334
Haigh, Karen	TuesA02	693
Handa, Hisashi	TuesA01	685
Hao, Yinxing	SunE03	87
Hara, S.	TuesM01	559
Harding, Christopher A	TuesA02	711
Hasan, M. S. (CC)	SunE02	
Hasan, Mohammad Shahidul	TuesA02	699
Hätönen, J.	MonM01	163
He, Feng	MonM02	199
He, Feng	TuesE03	868
He, Xiaoming	SunE01	26
Heijnen, P.	MonM02	181
Hellendoorn, J.	MonM02	175
Henmi, Tomohiro	TuesM01	559
Heydecker, Benjamin G	MonM02	193
Holstead, J	MonE02	455
Hong, Henry	SunE03	70
Hongian, Yu	TuesA02	711
Hossain, Alamgir (C)	TuesM02	
Hossain, Alamgir (CC)	TuesA04	
Hossain, Alamgir M	TuesM02	568
Hou, X Q	MonA03	345
Hou, Yunzhang	MonM03	205
Hou, Zeng-guang	TuesE04	889
Hou, Zeng-guang	SunE01	20
Hou, Zeng-guang	MonA02	319
Hou, Zeng-guang (CC)	TuesE04	
Hou, Zeng-guang (CC)	SunE01	
Howe, D.	TuesA03	734
Howe, D.	TuesA03	740
Hsu, Chun-fei	TuesA03	751
Hsu, Tsong-hai	TuesE02	821
Hu, Liang	TuesE02	852
Hu, Wenshan	SunE02	52
Hua, Changchun	SunE04	115
Hua, Zhang	SunE02	42
Huang, Chia-tai	TuesA04	787
Huang, Yi-sheng	TuesE03	862
Huang, Yi-sheng (CC)	TuesE03	
Huijberts, Henri	TuesA02	717
Hung, Kun-neng	TuesA03	751
Hung, Min-Hsiung	TuesE04	895

I

Ignaciuk, Przemyslaw	TuesA04	757
Inaba, Hiroshi	MonM01	145
Inoue, Akira	TuesM01	536
Inoue, Akira	TuesA01	680
Inoue, Akira	TuesM01	542
Inoue, Akira	TuesM01	559
Inoue, Akira	TuesA01	689
Inoue, Akira (C)	TuesM01	
Inoue, Akira (C)	TuesA01	
Ioannou, Petros	TuesM02	584
Irwin, George W	MonE01	404
Irwin, George W (CC)	MonE01	
Istepanian, H. (CC)	MonM04	
Istepanian, Robert S. H.	MonM04	245
Ito, Kazuyuki	TuesA01	674
Ito, Masayasu	MonM01	157
Ito, Masayasu (CC)	MonM01	

J

Jankovic, Nicholas D	TuesM04	662
Jethwa, Dipan	TuesA03	729
Jia, Yuanyuan	TuesM03	602
Jiang, Zhao-Hui	MonA01	273
Jiang, Zhao-Hui (C)	MonA01	
Jin, Xiaolong	TuesA04	769
Johansson, Karl H.	MonM04	261
Johansson, Mikael	MonM04	261
Ju-Guang, Li	SunE02	42

K

Kahani, Mohsen	TuesE02	834
Kambhampati, C.	MonE01	398
Kambhampati, C.	MonE01	416
Kambhampati, C. (C)	MonE01	
Kamise, Kouya	MonA01	273
Kang, Qi	TuesE03	856
Kang, Qi	TuesE02	846
Kazerooni, Elham S.	TuesM03	628
Khorasani, Khashayar	TuesM03	628
Kim, Bong-Soo	MonM01	133
Kim, Myunghee	TuesM03	608
Klinkhieo, Supat	MonE01	416

Kong, Lingfu	MonA01	285
Kong, Lingfu	MonE04	501
Krupin, Y	MonE02	455
Kuchimanchi, Gopi K	MonA04	374
Kulcsar, Caroline	TuesA04	763
Kuroda, Tadahiro	MonA02	307

L

Lain, Jenn-kaie	TuesA04	787
Lang, Z Q	TuesA01	668
Lee, Jungtea	MonE02	460
Lee, Shung-shing	TuesE03	862
Lee, Tsu-tian	TuesA03	751
Lemin, Li	MonE04	525
Lestas, Marios	TuesM02	584
Li, J. G.	SunE02	64
Li, Jihong	SunE04	111
Li, Kunjie	SunE02	58
Li, Linfeng	MonA04	368
Li, Runmei	MonE04	513
Li, Shaoyun	MonE03	483
Li, Y.	TuesA03	734
Li, Yong	MonE02	443
Li, Yunqiu	TuesM02	590
Li, Zhenjiang	MonM02	199
Li, Zhi-yun	MonM03	224
Liang, Hua	MonA04	368
Liang, Xiao	TuesE04	889
Liang, Zize	MonA02	324
Liang, Zi-ze	SunE01	20
Liao, Rui	TuesA02	717
Liao, Rui (CC)	TuesA02	
Lim, Allan	TuesM04	634
Lin, Cheng-han	TuesE02	821
Lin, Chin-chin	TuesE02	821
Ling, Haifeng	MonM03	205
Litz, Lothar	TuesM04	639
Liu, Derong	MonA04	368
Liu, Derong (C)	MonA04	
Liu, G. P.	TuesE01	792
Liu, G. P.	TuesE03	879
Liu, G. P.	TuesE01	815
Liu, G. P.	SunE02	36
Liu, G. P.	SunE02	52

Name	Session	Page
Sun, Yuwei	SunE04	123

T

Name	Session	Page
Takahashi, Koji	MonA03	334
Takahashi, Tomoki	MonM01	145
Tan, Min	TuesE04	889
Tan, Min	SunE01	20
Tan, Min	MonA02	319
Tan, Min	MonA02	324
Tan, Min (C)	MonA02	
Tan, Yonghong	SunE04	129
Tang, Bin	TuesE01	798
Tang, Choon Y	TuesA02	693
Tang, Sharron	MonE04	513
Tang, Ying	MonE03	489
Tang, Ying (CC)	MonE03	
Tao, L	MonA03	345
Tian, Gui Yun	MonE02	449
Tian, Gui Yun	MonE02	443
Tian, Gui Yun (C)	MonE02	
Tian, Xuemin	SunE03	76
Tong, Shiwen	TuesM01	562
Toosi, Adel Nadjaran	TuesE02	834
Trcka, A	MonE02	455
Treleaven, Phillip	MonM04	255
Tynan, Richard	SunE01	7
Tzvetkov, Vesselin	TuesE02	828

U

Name	Session	Page
Uchikawa, Yoshinori	MonM01	133
Uchikawa, Yoshinori (C)	MonM01	
Ueki, Nobuyuki	TuesA01	689
Üstebay, Deniz	TuesM02	574

V

Name	Session	Page
Vrancken, J.	MonM02	169

W

Name	Session	Page
Wane, Samuel O.	TuesA03	746
Wane, Samuel O. (CC)	TuesA03	
Wang, Fei-yue	MonM02	199
Wang, Fei-yue	TuesE03	868
Wang, Fei-yue (CC)	MonM02	
Wang, Hong	SunE03	81
Wang, Hong (CC)	SunE03	
Wang, Hongbo	MonA01	285
Wang, Hongbo	MonE04	507
Wang, Jiacun	MonM03	218
Wang, Jiacun (C)	MonM03	
Wang, Kaihua	SunE04	111
Wang, Lei	TuesE03	856
Wang, Lei	TuesE02	846
Wang, Long	SunE04	123
Wang, Shouyang	SunE04	105
Wang, Shuo	SunE04	115
Wang, Xiangju	SunE04	119
Wang, Xiaodong	MonA02	324
Wang, Yu-feng	SunE03	70
Wang, Yumin	TuesE02	840
Wang, Yuying	TuesM03	602
Wang, Zhixue	TuesE03	868
Wang, Zidong	MonM03	209
Watters, Paul	MonA04	386
Watters, Paul A	MonA04	380
Wenhu, Qin	TuesE04	907
Wong, CK	MonM02	193
Woodward, M.E.	TuesM02	579
Wright, David	TuesM04	656
Wright, David (C)	TuesM04	
Wu, J. H.	SunE02	64
Wu, Naiqi	MonM03	228
Wu, Qidi	TuesE03	856
Wu, Qidi	TuesE02	846
Wu, Qidi (C)	TuesE02	
Wu, Wenyan	MonA03	350
Wu, Wenyan	MonA03	345
Wu, Wenyan	TuesM03	622
Wu, Wenyan (CC)	MonA03	
Wu, Wenyan (CC)	TuesM03	
Wu, Xiaofeng	TuesA01	668
Wu, YingBin	MonA03	345

X

Name	Session	Page
Xia, Bokai	SunE03	76
Xia, Yuanqing	TuesE01	815
Xia, Yuanqing (CC)	TuesE01	
Xiao, Gang	MonM03	224
Xiao, Hui	TuesE03	856
Xiao, Jing	TuesE02	840
Xiaomei, Liu	TuesE04	907

Y

Name	Session	Page
Yamamoto, T. (CC)	TuesM01	
Yamamoto, Toru	TuesM01	536
Yamamoto, Toru	TuesM01	547
Yang, Hongji	MonE03	483
Yang, Hongji (C)	MonE03	
Yang, Hongji (CC)	TuesE02	
Yang, Kexin	TuesE02	852
Yang, Po	TuesM03	622
Yang, S. X.	MonE02	455
Yang, S. X. (CC)	MonE02	
Yang, Shuanghua	MonA02	329
Yang, Shuang-hua	SunE03	76
Yang, Shuang-hua	TuesM02	590
Yang, Shuang-hua (CC)	TuesM02	
Yang, Simon X	SunE03	93
Yang, Simon X.	TuesE04	883
Yang, Tai	TuesA03	746
Yang, Tai C	TuesA02	699
Yang, Tze	MonA04	362
Yang, Zongxiao	TuesA01	680
YANOU, Akira	TuesM01	542
Yao, Leehter	TuesE02	821
Yao, Leehter	MonA04	362
Yao, Qingming	MonM02	199
Yao, Wenbing	TuesA04	781
Yao, Wenbing	TuesA02	705
Yao, Wenbing	TuesA02	723
Ye, Donghee	MonE02	460
Yi, Jianqiang	SunE03	99
Yi, Jianqiang	SunE03	87
Yin, Hujun	MonE03	495
YL, Mo	TuesA04	775
Yu, Hongnian	MonA01	285
Yu, Hongnian	TuesA02	699
Yu, Hongnian	MonA03	356
Yu, Hongnian	MonM01	151
Yu, Hongnian	TuesA03	746
Yu, Meng	MonM03	212
Yu, Wang	MonE04	525

SESSION ROOM LOCATION

Howell Centre (Howell Theatre H001)
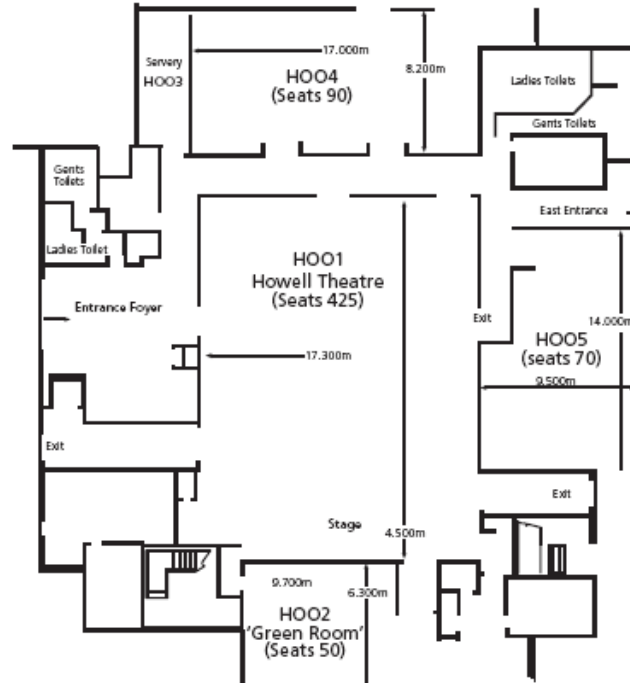
Lecture Centre (Lecture theatres 061, 063, 065 and 067)