



CURRICULUM VITAE of Steven Guan

PERSONAL DATA

Name: Steven Sheng-Uei Guan
Professional Title: Professor
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LinkedIn: http://www.linkedin.com/profile/view?id=71095338&trk=tab_pro
Access to My Research Papers: <http://bura.brunel.ac.uk/>

EDUCATION

Aug. 1989, Computer Science, Ph.D., University of North Carolina at Chapel Hill, USA
Dec. 1986, Computer Science, M.Sc., University of North Carolina at Chapel Hill, USA
Jun. 1981, Information Engineering, M.Eng., Tamkang University, Taiwan
Jun. 1979, Mathematics, B.Sc., National Tsinghua University, Taiwan

EXPERIENCES

Aug. 2015 – now

- Director, Research Institute of Big Data Analytics, Xi'an Jiaotong-Liverpool University (XJTLU), Suzhou, China

Jan. 2008 – now

- Professor (tenured), Department of Computer Science & Software Engineering, Xi'an Jiaotong-Liverpool University (XJTLU), Suzhou, China
- Final Year Project Coordinator
- Admissions Liaison Officer
- Adjunct Professor, Xi'an Jiaotong University, China
- Recognised Teacher at University of Liverpool

Jan. 2008 – Mar. 2012

- Head of Department, Department of Computer Science & Software Engineering, Xi'an Jiaotong-Liverpool University (XJTLU), Suzhou, China
- Programme Director, BSc Information and Computing Science
- Programme Director, BEng Computer Science and Technology
- Programme Coordinator, BSc Information Management and Information Systems (eFinance)
- Programme Coordinator, BEng Digital Media Technology
- Member of University Teaching & Learning committee (ULTC)
- Member of Research Committee
- Member of Academic Board
- Member of Industry Liaison Committee
- Member of University Progress Committee
- Member of Misconduct Committee
- Member of Staff-Student Liaison Committee

Jun. 2006 – Dec. 2007

- Chair in Intelligent Systems (tenured), School of Engineering and Design, Brunel University, UK
- Leader, Intelligent Systems Research Group

- Member, Research Committee
- MMTD Level 3 Project Coordinator

Jan. 1999 – Jun. 2006

- Associate Professor, Department of Electrical & Computer Engineering (ECE), National University of Singapore
- Member, Curriculum Task Force, ECE Dept.
- Supervisor, IT & e-Education Team
- Chair, IT Task Force, ECE Dept.
- Member, Distance Education Task Force, Faculty of Engineering
- Supervisor, Printed Circuit Board Facilities

Jul. 1998 - Dec. 1998

- Senior Lecturer, Department of Electrical Engineering, National University of Singapore

Jan. 1996 - Jul. 1998

- Lecturer (highest level), School of Computer Science & Computer Engineering
La Trobe University, Bundoora, Vic. Australia

Aug. 1992 - Jan. 1996

- Associate Professor, Department of Computer Science & Engineering, Yuan-Ze University, Taiwan
- Faculty search committee member

Aug. 1994 - Jul. 1995

- Chairman, Department of Information & Communication Technology, Yuan-Ze University
* Curriculum development & course administration

Aug. 1992 - Jul. 1994

- Deputy Director, Computer Center, Yuan-Ze University

Feb. 1990 - Jul. 1994

- Adjunct associate professor:
 - Providence University, Taiwan (1990)
 - Tamkang University, Taiwan (1990-1991)
 - National Taiwan Normal University, Taiwan (1991-1992)
 - National Tsinghua University, Taiwan (1992-1993)
 - Chung Hua University, Taiwan (1993 - 1994)

Jan. 1985 – Aug. 1989

- Research Assistant (Facilities Group)/Teaching Assistant at UNC-CH

INDUSTRIAL EXPERIENCES

July 1990 – Aug. 1992

- Manager, Computer and Communication Research Laboratories (CCL), Industrial Technology Research Institute (ITRI), Taiwan
 - in charge of FDDI & OSI technology development

- Member, Patent Reviewing Board

- Member, TQA committee

Oct. 1989 - Sep. 1990

- Consultant, Accton Corp., Taiwan

Nov. 1981 - Jul. 1990

- System design engineer, Electronic Research & Service Organization (ERSO), ITRI

AWARDS & HONOURS

- My PhD student, Fangzhou Liu, received the best paper award at the International Conference on Computing and Technology Innovation (CTI 2015), May 27 - 28, 2015, University of Bedfordshire, Luton, United Kingdom
- My PhD student, David Afolabi, received the best prize award at the International Conference on Computing and Technology Innovation (CTI 2015), May 27 - 28, 2015, University of Bedfordshire, Luton, United Kingdom
- My PhD student, David Olalekan Afolabi, won PhD Poster Award at XJTU, 2015

- Best Paper Award, Ting Wang, Sheng-Uei Guan, Hui-Huang Hsu, JongHyuk Park, KaLok Man, "Classification Capacity Evaluation Per Feature based on Neural Incremental Attribute Learning", the 6th FTRA International Conference on Information Technology Convergence and Services (ITCS-14), Taipei, Taiwan, October 16-18, 2014
- Research paper: Ka Lok Ho, Chak Fai Lee, Yat Fung Wong, Sheung Ting Choi, Ka Ho Cheung, Sheng-Uei Guan, Ka Lok Man, Chi-Un Lei, "NextBUS: A Bus Transportation Advisory System for Metropolis", received best student paper award presented in the DATICS Student session at the International MultiConference of Engineers and Computer Scientists 2014 Vol II, IMECS 2014, March 12 - 14, 2014, Hong Kong.
- Excellent Oral Presentation Award, 2012 International Conference on Information and Intelligent Computing (ICIIC 2012), Chengdu, China, Dec. 8-9, 2012
- Suzhou Industrial Park Jinji Lake 200 Talents Award, 2011 (首届"金鸡湖双百人才", 科教领军人才)
- Suzhou Talents-in-Need, 2009-2014 (苏州市高层次紧缺人才 2009-2014 年)
- Listed under Most Prolific DBLP Authors (Steven Guan)
- Marquis 2009 Edition of Who's Who in the World
- Marquis Who's Who in Asia, 2007
- Marquis Who's Who in Science and Engineering: included in the 2006-2007 Edition
- My final year students Zhe Miao, Zhangjun Lim won the third prize for the Philips Young Innovator's Challenge, Singapore
- My PCB facilities received the Silver Award under SEAL (Safety Excellence Award for Laboratories), National University of Singapore, 2006
- My research paper: "Migration control for mobile agents based on passport and visa", 173-186, Volume 19, Issue 2, Future Generation Computer Systems, February 2003.
 - Ranked 1st among the top 25 of the most downloaded articles for Future Generation Computer Systems from January to December 2003
 - Ranked 4th among the top-10 ScienceDirect articles in different areas of interest, Main category: Computer Science Subcategory: Computer System Organizations
 - Ranked 2nd among the top-10 ScienceDirect articles in different area of interest, Main category: Computer Science Subcategory: Software
- My research paper: "Handy broker: an intelligent product-brokering agent for m-commerce applications with user preference tracking", Electronic Commerce Research and Applications, 314-330, Vol. 1, No. 3-4, Autumn-Winter 2002
 - Ranked 16th among the top 25 of the most downloaded articles for Electronic Commerce Research and Applications from January to May 2003
- My Ph.D. student Fangming Zhu awarded SMF fellowship for two years from the Singapore Millennium Foundation (SMF), May 2003
- Marquis Who's Who in Science and Engineering: included in the 2003-2004 Edition
- Marquis Who's Who in America: included in the 2003-2004 Edition
- Marquis Who's Who in Science and Engineering: included in the 2002-2003 Edition
- IBC International Man of the Year, 2003
- Marquis Who's Who in the World: included in the 19th Edition, 2002
- IBC Who's Who Award for Achievement for 2002
- IBC 21st Century Award for Achievement, 2002
- IBC International Scientist of Year for 2002
- IBC 2000 Outstanding Intellectuals of the 21st Century: included in the 2nd Edition
- Best conference paper award in Multi-Agents and Mobile Agents in Virtual Organizations and E-Commerce (MAMA'2000), International Computing Sciences Conventions (ICSC) Symposium on Intelligent Systems and Applications, December 11-15, 2000, University of Wollongong, Australia
- My research paper "Protecting Integrity for Code-on-Demand Mobile Agents in E-Commerce" is selected as one of the top 3 high quality papers by the ICEC2001 workshop committee.
- Final Year Project Thesis: "A Dynamic Petri Net Model for Interactive Distributed Multimedia Presentation" carried out by my student Tan Wei Kiat, Roy under my supervision has been awarded IES Publication Award (student section), Sep. 2000

- Marquis Who's Who in the World: included in the 14th Edition
- Excellent Service Award, Yuan-Ze University, 1994 & 1995
- Industry Contribution Award, ITRI, 1992
- Research Achievement Award, ITRI, 1991
- Quality Improvement Proposal Award, CCL/ITRI, 1990
- Sponsored by ITRI for my PhD study, 1985-1989
- Excellent Design Engineer Award, ERSO/ITRI, 1981

RESEARCH GRANTS

• Principal investigator:

- Interference-less Machine Learning (2013-2016, Jiangsu Science and Technology Programme BK20131182, RMB¥100,000, Matching grant from SIPEDI: RMB¥50,000)
- Research on incremental attribute learning: theory, algorithms and applications (2011-2014, NSFC 61070085/F020508, Grant: RMB¥290,000, Matching grant from SIPEDI: RMB¥145,000)
- XJTU Conference Fund, RMB\$12,000, 2015
- XJTU Conference Fund, RMB\$12,000, 2012
- XJTU Conference Fund, RMB\$12,000, 2011
- XJTU Conference Fund, RMB\$12,000, 2010
- Royal Society Conference Grants (2007R2: £700)
- Design of Controllable Cellular Automata for Pseudorandom Number Generation (2003-2006, Research Grant R-263-000-253-112, Grant: S\$66,352)
- Incremental Learning of Neural Networks (2002-2005, Research Grant R-263-000-215-112, Grant: S\$52,724)
- Distributed E-Commerce Agents on High-speed Networks, Singaren ICT/00/013/014 (2001-2003, SINGAREN, Grant: S\$211,000)
- Modeling & Building Interactive Multimedia Framework Based on Prioritized Petri-nets (1999-2001, Research Grant, RP3992674, Grant: S\$64,132)
- Analysis of Prioritized Petri-nets and its Applications (1997, Australia Research Council, ARC Small 8900, Grant: AU\$5,000)
- La Trobe University, Minor Equipment Grant (1997, Grant: AU\$30,000)
- Research on the Application of Hypermedia and Workflow Technology in Education (1994 - 1995, NSC 84-2511-S-155-008 CL, Grant: NT\$330,200)
- Multimedia Computer-aided Instruction & Learning Environment for the Red Chamber Dream (1993 - 1994, NSC 83-0301-H-155-003, Grant: NT\$490,000)
- Buffer Cut-through Management Scheme for Layered Protocol Stack (1992 - 1993, NSC82-0113-E-155-061-T, Grant: NT\$93,000)

• Co-investigator:

- Hybrid Power and Timing Aware Platform for Non-Linear VLSI Circuits Transient Simulation, XJTU Research Development Fund application, RMB\$100,000, submitted.
- Design and Realization of a Smart Battery Management System (2012, submitted, XJTU PGR Scholarship Fund, RMB\$250,000)
- Power-efficient non-linear analog/mixed-signal circuit transient simulation platform via hybrid computing systems (2012, submitted, XJTU Research Development Fund, RMB\$100,000)
- A Power Efficient and Flexible Mote-on-a-Chip for Wireless Sensor Networks (2011, XJTU Research Development Fund, RMB\$87,000)
- Eye-driven vocabulary/idiom/phrase search and terminology support for language learners and workers (2010, XJTU Research Development Fund, RMB\$27,630)
- A rigorous approach for specification and verification of cyber physical systems (2010, XJTU Research Development Fund, RMB\$50,000)
- An integrated methodology for the modeling, analysis and development of sensor networks using formal methods (2010, XJTU Research Development Fund, RMB\$52,000)
- Research on High Speed Network Video Servers and Network Management Systems (1994 - 1997, NSC85-2622-E-155-002, Grant: NT\$1,690,500 - NSC; NT\$425,200 - Accton Corp.)

- Research on Computer-supported Group Working Environment (1993 - 1994, NSC 83-0408-E-155-013; Grant: NT\$348,000)
- Research on Chinese Office Workflow Systems (DEC External Research Program)

PATENTS

1. Ting Wang and **Sheng-Uei Guan**, “Discriminability metrics for fast classification”, application in process.

MEMBERSHIP OF EDITORIAL BOARDS

1. Associate Editor for the International Journal of Machine Learning, Pattern Recognition and Data Mining (MLPRDM) , 2014 – now
2. Member of the Advisory Board for the International Journal of Innovative Research in Advanced Engineering, 2014 – now
3. Member of the Editorial Review Board for the Open Academic Research Journal (OARJ), 2014 – now
4. Member, Editorial Board, International Journal of Electrical Communication Engineering, 2014 – now
5. Member, Editorial Board, International Journal of Automatic Control System, 2014 - now
6. Associate Editor, International Journal on Computer Vision, Machine Learning and Data Mining (CVMLDM), 2014 - now
7. Member, Editorial Board, Information Resources Management Journal, 2013-now
8. Member, Editorial Board, International Journal of Computer and Information Technology (IJCIT)
9. Member, Editorial Board, Journal of Applied Research in Higher Education (JARHE), 2012-2014.
10. Associate Editor, the International Editorial Board (IEB) for the Higher Education Teaching and Learning Association (HETL) Review, 2012-2014
11. Member, the International Editorial Board of the ICTACT Journal on Soft Computing
12. Associate Editor, International Journal of Applied Evolutionary Computation (IJAECC)
13. Member, the International Editorial Review Board (IERB) of the Journal of Electronic Commerce in Organizations (JECO), 2002 – now
14. Member, the Editorial Board of Multiagent and Grid Systems - An International Journal (IOS Press), 2005 – now
15. Member, the Editorial Review Board of Journal of Cases on Information Technology (JCIT), 2006-2008, 2013-now
16. Member, the Editorial Review Board of Journal of Information Technology Research (JITR), 2006-2008, 2013-now
17. Member, the Editorial Board of Journal of Engineering and Applied Sciences (JEAS)
18. Member, the Editorial Board of International Journal of Soft Computing (IJSC)
19. Member, the Editorial Board of Research Journal of Applied Sciences (RJAS)
20. Member, the Editorial Board of Journal of Mobile Communication (JMC)
21. Member, the Editorial Board of Asian Journal of Information Technology
22. Member, International Editorial Board of the International Journal of Adaptive Multimedia Systems (IJAMS), 2009-2011
23. Member, the Editorial Review Board of the International Journal of Cases on Electronic Commerce (IJCEC), 2003 – 2004
24. Guest Editor, Special Issue on Adaptive Multimedia Computing, Journal of Systems and Software (North-Holland), 2004

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

1. Invited, Conference Committee Chair, 2016 IEEE International Conference on Big Data Analysis (ICBDA 2016), Hangzhou, China, March 12-14, 2016
2. Invited, Conference Chair, 2016 IEEE Information Technology, Networking, Electronic and Automation Control Conference (ITNEC 2016), Chongqing China, May 20-22, 2016
3. Co-Organizer, Special Session on Businesses Forecasting by Hybrid Evolutionary Algorithms, 2015 IEEE International Conference on Systems, Man, and Cybernetics (SMC2015), Hong Kong, Oct. 9-12, 2015

4. Invited, Chair of the Technical Program Committee, 2015 IEEE Advanced Information Technology, Electronic and Automation Control Conference (IAEAC 2015), Chongqing, China, December 19-20, 2015
5. Invited, Conference Program Chair of the 2015 IEEE International Conference on Computer and Communications (ICCC2015), Chengdu, Oct.10-11, 2015
6. Conference Chair of the 3rd International Conference on Information Technology and Science (ICITS 2015), Pattaya, Thailand, March 28-29, 2015
7. Conference Chair of the 2015 International Conference on Informatics, Environment, Energy and Applications (IEEA2015), Pattaya, Thailand, March 28-29, 2015
8. Conference Co-Chair of the 2015 International Conference on Measurement, Automation and Instrumentation (ICMAI 2015), Hong Kong, China, March 12-13, 2015
9. Conference Co-Chair of the 2015 International Conference on Electrical Engineering and Information Technology (CEEIT 2015), Hong Kong, China, March 12-13, 2015
10. Program Chair of 2014 World Congress on Electronics and Electrical Engineering (WCEEE 2014), Hong Kong, December 26-28, 2014
11. Program Chair of the 3rd International Conference on Information and Intelligent Computing (ICIIC 2014), Hong Kong, December 26-28, 2014
12. Advisory Board member, 2014 International Conference on Platform Technology and Service (PlatCon-14), Jeju, Korea, Feb. 11-13, 2014
13. Technical Program Committee Chair for the 2014 International Conference on Electrical Engineering and Information Technology (CEEIT 2014), Hangzhou, China, Mar. 29-30, 2014
14. Conference Chair of the 3rd International Conference on Informatics, Environment, Energy and Applications (IEEA 2014), Shanghai, China, March 27 - 28, 2014
15. Program Chair/ICIIC 2013 Chair, 2013 World Congress on Electronics and Electrical Engineering (WCEEE 2013), Kuala Lumpur, Malaysia, December 29-30, 2013
16. Conference Chair, 2012 International Conference on Information and Intelligent Computing (ICIIC 2012), Chengdu, China, Dec. 8-9, 2012
17. Conference Chair, 2012 International Conference on Civil Engineering (ICCEN 2012), Chengdu, China, Dec. 8-9, 2012
18. Conference Chair, 2012 International Conference on Electronic Design Automation (ICEDA 2012), Chengdu, China, Dec. 8-9, 2012
19. Senior member of the Science and Engineering Institute (SCIEI)
20. Member of the Steering Committee of Web Intelligence Consortium, China
21. Founding member, Web Intelligence Consortium, China
22. Member, Australasian Association for Engineering Education (AAEE)
23. Reviewing member, MOEA (Ministry of Economic Affairs) Projects, Industrial Development Bureau, Ministry of Economic Affairs, Taiwan
24. Member, the Chinese Institute of Electrical Engineering
25. Member, the Information Management Association
26. Member, National Information & Communication Standards Drafting Committee, Taiwan (July 1991 - 1996)
27. OSI Working Group, Taiwan:
 - i. Member, conformance test SIG (Oct. 1993 - 1996)
 - ii. Member, steering committee (Jul. 1990 - Jun. 1991)
 - iii. Chair, LAN/FDDI SIG (Apr. 1990 - Jun. 1991)
28. Member, Video-Info network Development & Application Association of Taiwan
29. Research Visit, National Chi Nan University & Cheng-Kung University, Taiwan, (sponsored by Ministry of Science and Technology, Taiwan), Aug. 16-31, 2015
30. Research Visit, University of Texas, Dallas in USA, Dallas, Texas, USA, Apr. 10-20, 2015
31. Research Visit, La Trobe University, Australia, Melbourne, Australia, Feb. 8-21, 2015

32. Research Visit, Oriental Institute of Technology, Taipei, Taiwan (sponsored by Ministry of Science and Technology, Taiwan), Jul. 14-22, 2014
33. Research Visit, School of Computer Science & Information Technology, RMIT University, Melbourne, Australia, Jan. 20, 2014 – Feb. 7, 2014

Invited Presentations at Conferences, Scientific Meetings, and Workshops

1. Invited, Kenote Speaker, 2016 IEEE Information Technology, Networking, Electronic and Automation Control Conference (ITNEC 2016), Chongqing China, May 20-22, 2016
2. Invited, Kenote Speaker of the 2016 IEEE International Conference on Big Data Analysis (ICBDA 2016), Hangzhou, China, March 12-14, 2016
3. Invited, Kenote Speaker of the 2015 IEEE International Conference on Progress in Informatics and Computing (PIC-2015) December 18-20, 2015, Nanjing University of Science and Technology, Nanjing, China
4. Invited Speaker of the 2nd Conference on Advances in Robotics and Automation Technology (ARAT 2015), Guilin, China, November 20-22, 2015
5. Invited, Kenote Speaker of the 2015 International Conference on Computer and Communications (ICCC2015), Chengdu, Oct.10-11, 2015
6. Kenote Speaker of the 2015 6th IEEE International Conference on Software Engineering and Service Science (ICSESS 2015), Beijing, China, on September 23-25, 2015
7. Kenote Speaker of the 3rd International Conference on Information Technology and Science (ICITS 2015), Pattaya, Thailand, March 28-29, 2015
8. Kenote Speaker of the 2015 International Conference on Informatics, Environment, Energy and Applications (IEEA2015), Pattaya, Thailand, March 28-29, 2015
9. Kenote Speaker of the 2015 International Conference on Measurement, Automation and Instrumentation (ICMAI 2015), Hong Kong, China, March 12-13, 2015
10. Kenote Speaker of the 2015 International Conference on Electrical Engineering and Information Technology (CEEIT 2015), Hong Kong, China, March 12-13, 2015
11. Kenote Speaker for the 3rd International Conference on Informatics, Environment, Energy and Applications (IEEA 2014), www.ieea.org, Shanghai, China, March 27 - 28, 2014
12. Kenote Speaker for the 2014 International Conference on Electrical Engineering and Information Technology (CEEIT 2014), Hangzhou, China, Mar 29-30, 2014
13. Kenote Speaker for the 2013 World Congress on Electronics and Electrical Engineering (WCEEE 2013), Kuala Lumpur, Malaysia, December 29-30, 2013
14. Kenote speaker for the 2012 International Conference on Information and Intelligent Computing (ICIIC 2012), Chengdu, China, December 8-9, 2012
15. Kenote speaker for the 2012 International Conference on Civil Engineering (ICCEN 2012), Chengdu, China, December 8-9, 2012
16. Kenote speaker for the 2012 International Conference on Electronic Design Automation (ICEDA 2012), Chengdu, China, December 8-9, 2012
17. "Task Decomposition with Pattern Distributor", 2008 IEEE International Conference on Computational Intelligence and Security (CIS 2008), Suzhou, China, December 13-17, 2008
18. "Self-Modifiable Color Petri Nets for Self-Modifying Protocol Modeling and Network Event Handling", 2004 Communications Contest and Exhibition of the Asian Pacific Universities, Taichung, Taiwan, May 2004
19. "The Design of a Multimedia Hyperbook - the Red Chamber Dream", 1994 Pacific Workshop on Distributed Multimedia Systems, Feb. 1994
20. "Evolution of a Campus-wide Information Society", the Fourth National Conference on Information Management, Taipei, May 1993

MEMBERSHIP OF CONFERENCE COMMITTEES

1. Member of the Program Committee for the Workshop on Multi-agent based Applications for Energy Markets, Smart Grids and Sustainable Energy Systems (MASGES) as part of PAAMS 2016 in Sevilla (1.-3.June 2016)
2. Member of the International Program Committee of the 8th International Conference on Evolutionary Computation Theory and Applications (ECTA 2016), Porto, Portugal, November 9 – 11, 2016
3. Member of the Technical Program Committee for ISSPIT2015 (15th IEEE International Symposium on Signal Processing and Information Technology 2015), Abu Dhabi, United Arab Emirates, December 7, 2015
4. Member of the Technical Program Committee for the 2016 International Conference on Promotion of Information Technology (ICPIT2016, Suzhou, China, Dec. 19~21, 2016
5. Member of the Technical Program Committee for the Second International Workshop on Advances in Image Processing, Computer Vision, and Pattern Recognition (IWICP-2015)
6. Member of the International Program Committee (IPC) for the 13th International Conference on Parallel and Distributed Computing and Networks (PDCN 2016) in Innsbruck, Austria, from February 15-17, 2016
7. Member of the Technical Program Committee for the 2015 Workshop on Signal Processing for Wireless and Multimedia Communications (SPWMC'15)
8. Member of the Technical Program Committee for the 2015 Symposium on Multimedia, Visualization and Human Computer Interaction (SMVH'15)
9. Member of the International Program Committee (IPC) for the 15th International Conference on Intelligent Systems Design and Applications (ISDA), Marrakesh, Morocco, December 7-9, 2015
10. Member of the International Program Committee (IPC) for the International Conference on Parallel and Distributed Computing and Networks (PDCN), 2015-2018
11. Member of Technical Advisory Committee, International Conference on Signal, Computing and Communication Systems 2016 (ICSCCS 2016), Chennai, India, February 4 – 6, 2016
12. Member of the Technical Program Committee, International Workshop on Bio-inspired and Deep Learning Approaches to Advanced Computing and Communications 2015 (BIOADCOM'15) as part of the 9th International Conference on Bio-inspired Information and Communications Technologies, New York, December 3–5, 2015
13. Member of the Technical Program Committee, the 2nd Conference on Advances in Robotics and Automation Technology (ARAT 2015), Guilin, China, November 20-22, 2015
14. Member of the Technical Program Committee, the 15th International Conference on Hybrid Intelligent Systems (HIS'15), Seoul, Korea, November 16 – 18, 2015
15. Member of the Technical Program Committee, International Symposium on Web of Things and Big Data (WoTBD2015), Niagara Falls, Ontario, Canada, August 17-20, 2014
16. Member of the Technical Program Committee, the 2nd International Workshop on Mobile Applications (MobiApps-15), Rome, Italy, August 24-26, 2015
17. Member of the Technical Program Committee, 2015 Workshop on Signal Processing, Image Processing and Pattern Recognition (SIPR'15), Kerala, India, Aug. 10-13, 2015
18. Member of the Technical Program Committee, the Second International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS'15), Trivandrum, India, Dec. 16-19, 2015
19. Member of the Technical Program Committee, the International Conference on Information Engineering (ICIE 2015), Beijing, China, April 25-26, 2015
20. Member of the International Program Committee of the 7th International Conference on Evolutionary Computation Theory and Applications (ECTA 2015), Lisbon, Portugal, November 12 – 14, 2015
21. Member of the Program Committee of the 10th IEEE International Workshop on the Performance Analysis and Enhancement of Wireless Networks (PAEWN-2015), held in conjunction with the 29th IEEE AINA 2015, 2015, Gwangju, Korea, March 24-27, 2015
22. Member of the Program Committee for the 14th International Conference on Hybrid Intelligent Systems (HIS 2014), Gulf University for Science and Technology, Kuwait, Dec. 14-16, 2014
23. Member of the Program Committee on Wireless Networks in Control Systems for the GS International Conference on Computer Science 2014, Dubai, UAE, Nov. 7-9, 2014
24. Member of the technical program committee for DPNoS 2014 (The 2014 International Workshop on the Design and Performance of Networks on Chip), Niagara Falls, Ontario, Canada, August 17-20, 2014
25. Member of the technical program committee for the 5th International Conference on Modelling, Simulation, and Identification (MSI 2014), Banff, Canada, July 16 – 18, 2014

26. Member of the Advisory Board of HKU Student Session at the International MultiConference of Engineers and Computer Scientists 2014 (IMECS), Hong Kong, March 12-14, 2014
27. Member of the technical program committee for MobiApps 2014 (2014 International Workshop on Mobile Applications, Barcelona, Spain), 27-29 August 2014, Barcelona, Spain, August 27-29, 2014
28. Member of the program committee of the 12th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'14), University of Salamanca (Spain), June 4-6, 2014
29. Member of the technical program committee for the 2014 International Conference on Electronic Publishing and Information Technology (ICEPIT 2014), University of Bahrain, Bahrain, Apr. 22-24, 2014
30. Member of the Program Committee for the First Euro-China Conference on Intelligent Data Analysis and Applications (ECC-2014), Shenzhen, China, June 13-15, 2014
31. Member of the Program Committee for the MASGES-workshop as part of 12th Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'14) in Salamanca, Spain, June 4-6, 2014
32. Member of the International Program Committee of the 8th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2014) track "Data Management in Pervasive Systems", Birmingham, UK, July 2~3, 2013
33. Member of the International Program Committee of International Conference on Evolutionary Computation Theory and Applications (ECTA 2014), Rome, Italy, October 22 – 24, 2014
34. Member of the International Research Advisory Board for the International Conference on Computational Linguistics and Integrated Classical Knowledge Rediscovered - CLICK14, Sri Sankara Arts & Science College, Enathur, Kanchipuram, TamilNadu, India, last week of January 2014
35. Member of the International Program Committee (IPC) for the International Conference on Parallel and Distributed Computing and Networks (PDCN 2014), Innsbruck, Austria, February 17 - 19, 2014
36. Member of the 13th International Conference on Hybrid Intelligent Systems (HIS'13), Tunis, Tunisia, December 4 - 6, 2013
37. Member of the Program Committee for the International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS-2014), Trivandrum, India, March 13-15, 2014
38. Member of the International Advisory Committee / Technical Programme Committee (TPC) for the 2014 International Conference on "Computing for Sustainable Global Development" (INDIACom 2014), Bharati Vidyapeeth, New Delhi, INDIA, March 5-7, 2014
39. Member of the International Program Committee of the International Conference on Intelligent Systems Design and Applications (ISDA), Universiti Putra Malaysia (UPM), Kuala Lumpur, Malaysia, December 8-10, 2013
40. Member of the Technical Program Committee for the 5th International Conference on Soft Computing and Pattern Recognition (SoCPaR'13), Hanoi, Vietnam, December 14-17, 2013
41. Member of the Technical Program Committee for the International Workshop on Bio-Inspired Computing (BioCom'13)), co-located with Second International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013) , Mysore, India, August 22-25, 2013
42. Member of the Workshop for Multi-agent based Applications for Sustainable Energy Systems (MASSSES 2013) under the PAAMS (11th International Conference on Practical Applications of Agents and Multi-Agent Systems, Salamanca, Spain, May 22-24, 2013
43. Member of the Organizing Committee of the DATICS Workshop for the First International Conference on Information Technology and Quantitative Management (ITQM 2013), Suzhou, China, May 16-18, 2013
44. Member of the International Program Committee of International Conference on Evolutionary Computation Theory and Applications (ECTA 2013), Algarve, Portugal, September 20 - 22, 2013
45. Member of the International Program Committee for the conference Parallel and Distributed Computing and Networks (PDCN 2013), Innsbruck, Austria, February 11 - 13, 2013
46. Member of the 2012 IEEE Conference on Control, Systems & Industrial Informatics (ICCSII 2012), Bandung, Indonesia, September 23-26, 2012
47. Member of the 12th International Conference on Hybrid Intelligent Systems (HIS'12), Pune, India, December 4 - 7, 2012
48. Member of the 4th International Conference on Soft Computing and Pattern Recognition(SoCPaR'12), Universiti Brunei Darussalam, Brunei, December 10-13, 2012
49. Member of the 12th International Conference on Intelligent Systems Design and Applications (ISDA 2012), Kochi, India, November 27 – 29, 2012

50. Member of the International Program Committee for the International Conference on Parallel and Distributed Computing and Systems (PDCS 2012), Las Vegas, USA, November 12 – 14, 2012
51. Member of the International Program Committee of International Conference on Evolutionary Computation Theory and Applications (ECTA 2012), Barcelona, Spain, Oct. 5-7, 2012
52. Member of the International Program Committee for the International Conference on Artificial Intelligence and Soft Computing (ASC 2012), Napoli, Italy, June 18-20, 2012
53. Member of the International Program Committee for the International Conference on Control and Applications (CA 2012), Crete, Greece, June 18-20, 2012
54. Member of the Program Committee of the IJCNN 2012, special session on brain inspired models of memory
55. Member of the Program Committee of the Data Mining track, in the World Congress on Information and Communication Technologies (WICT2011), Mumbai, India, December 11-14, 2011
56. Member of the Technical Program Committee of CODS11 - 5th International Conference on Complex Distributed Systems, Mannheim, Germany, December 5-7, 2011
57. Member of the International Program Committee for the International Conference on Modelling, Simulation, and Identification (MSI 2011), Pittsburgh, USA, USA, November 7 – 9, 2011
58. Member of the International Program Committee for the Sixth International Conference on Computational Intelligence and Bioinformatics (CIB 2011), Pittsburgh, USA, November 7 – 9, 2011
59. Member of the International Program Committee for The 23rd International Conference on Parallel and Distributed Computing and Systems (PDCS 2011), Dallas, USA, December 14-16, 2011
60. Member of the International Program Committee of the International Conference on Control and Applications (CA 2011), Vancouver, BC, Canada, June 1 – 3, 2011
61. Member of the International Program Committee of the International Conference on Intelligent Systems and Control (ISC 2011), Cambridge, United Kingdom, July 11-13, 2011
62. Member of the International Program Committee of the Eleventh International Conference on Hybrid Intelligent Systems, Malacca, Malaysia. December 5-8, 2011
63. Member of the International Program Committee of the Internet and Multimedia Systems and Applications (IMSA 2011), Washington DC, USA, May 16 – 18, 2011
64. Member of the International Program Committee of the 2010 International Conference on Computational Intelligence and Soft Computing (ICCISC-2010), Cochin, India, December 2010
65. Member of the International Program Committee of the 2010 International Conference on Information Technology & Business Intelligence (ITBI-10), Institute of Management Technology, Nagpur, India, Nov. 12-14, 2010
66. Member, Program Committee of the International Conference on Soft Computing and Pattern Recognition (SoCPaR 2010) Cergy Pontoise, France, December 7-10, 2010
67. Member of the Technical Program Committee of the Second World Congress on Nature and Biologically Inspired Computing (NaBIC 2010), Kitakyushu, Japan, December 15-17, 2010
68. Member of the International Program Committee of the International Conference on Business Technology and Enterprise Systems (BTES2010), Chongqing, China, July 12-14, 2010
69. Member of the International Program Committee of the International Symposium on Innovations in Natural Computing (INC2009), in conjunction with the World congress on Nature and Biologically Inspired Computing (NaBic 2009), Cochin, Kerala, Dec. 12-13, 2009
70. Member of the International Program Committee of the International Conference on Evolutionary Computation (ICEC 2009), Madeira, Portugal, Oct. 5 – 7, 2009
71. Member of the International Program Committee of the International Conference on Soft Computing and Pattern Recognition, (SOCPAR 2009), Malacca, Malaysia, Dec. 4-7, 2009
72. Member of the International Program Committee of the World Congress on Nature and Biologically Inspired Computing (NABIC 2009), Tajmahal, India, Dec. 9-11, 2009
73. Member of the International Program Committee of the International Conference on Artificial Intelligence and Soft Computing (ASC 2009), Palma de Mallorca, Spain, September 7-9, 2009
74. Member of the International Program Committee of the International Conference on Intelligent Systems and Control (ISC 2009), Cambridge, Massachusetts, USA, November 2-4, 2009
75. Member of the International Program Committee of the International Conference on Communication Systems, Networks and Applications (CSNA 2009), Beijing, China, October 12-14, 2009

76. Member of the International Program Committee of the International Conference on Computational Intelligence (CI 2009), Honolulu, Hawaii, USA, 17-19 August 2009
77. Member of the International Program Committee of the International Conference on Internet and Multimedia Systems and Applications (IMSA 2009), Honolulu, Hawaii, USA, 17-19 August 2009
78. Member of the International Program Committee of the International Conference on Identification, Control and Applications (ICA 2009), Honolulu, Hawaii, USA, 17-19 August 2009
79. Member of the International Program Committee of the International Conference on Internet and Multimedia Systems and Applications (EuroIMSA 2009), Cambridge, United Kingdom, 13-15 July 2009
80. Member of the International Program Committee of the International Conference on Control and Applications (CA 2009), Cambridge, United Kingdom, 13-15 July 2009
81. Member of the International Program Committee of the International Conference on Wireless and Optical Communications (WOC 2009), Banff, Alberta, Canada from 06-08 July 2009
82. Member of the Program Committee of the 3rd International Conference on Adaptive Business and Information Systems (ABIS 2009), Leipzig, Germany, 23-25 March 2009
83. Member, International Program Committee, IEEE Congress on Evolutionary Computation (CEC) 2009, Trondheim, Norway on 18-21 May 2009
84. Workshop Chair, 2008 IEEE International Conference on Computational Intelligence and Security (CIS 2008), Suzhou, China, 13-17 December 2008
85. Member, International Program Committee for the International Conference on Intelligent Systems and Control, ISC 2008, Orlando, USA, 16-18 Nov. 2008
86. Member, International Program Committee for the 2008 SIWN International Conference on Adaptive Business Systems (ABS 2008), Glasgow, UK, 22-24 July 2008
87. Member, International Program Committee for the 2008 SIWN International Conference on Complex Open Distributed Systems (CODS 2008), Glasgow, UK, 22-24 July 2008
88. Member, International Program Committee for the International Conference on Artificial Intelligence and Soft Computing (ASC 2008), Palma de Mallorca, Spain, 1 – 3 September 2008
89. Member, International Program Committee for the International Conference on Communication Systems and Networks (CSN 2008), Palma de Mallorca, Spain, 1 – 3 September 2008
90. Member, International Program Committee for the International Conference on Mobile Communications and Computing (MCC'08), Glasgow, UK, 21-24 July 2008
91. Member, International Program Committee for the International Conference on Control and Applications (CA 2008), Quebec, Canada, 26-28 May 2008
92. Member, International Program Committee for the International Conference on Internet and Multimedia Systems and Applications (IMSA 2008), Kailua-Kona, USA from 18-20 Aug. 2008
93. Member, International Program Committee for the International Conference on Communication Systems and Networks (AsiaCSN 2008), Langkawi, Malaysia, 02-04 April 2008
94. Member, International Program Committee for the International Conference on Internet and Multimedia Systems and Applications (EuroIMSA 2008), Innsbruck, Austria from 17-19 March 2008
95. Member, International Program Committee for the International Conference on Wireless and Optical Communications (WOC 2008), Quebec, Canada, 26-28 May 2008
96. Member, International Program Committee for the International Conference on Communication Systems, Networks, and Applications, CSNA 2007, Beijing, China, 8 – 10 October 2007
97. Member, International Program Committee for the International Conference on Intelligent Systems and Control, ISC 2007, Cambridge, USA, 19-21 Nov. 2007
98. Member, Technical Program Committee of the 3rd International Conference on Self Organization and Autonomous Systems in Computing and Communications (SOAS'2007), Leipzig, Germany, 24-27 September 2007
99. Member, International Program Committee for the International Conference on Internet and Multimedia Systems and Applications, IMSA 2007, Honolulu, USA, 20-22 August 2007
100. Member, International Program Committee for the International Conference on Computational Intelligence, CI 2007, Banff, Canada, 2- 4 July 2007
101. Member, International Program Committee for the International Conference on Internet and Multimedia Systems and Applications (EuroIMSA 2007), Chamonix, France, March 14-16, 2007

102. Member, International Program Committee for the International Conference on Wireless and Optical Communications (WOC 2007), Montreal, Canada, May 30-June 1, 2007.
103. Member, International Program Committee, IEEE Congress on Evolutionary Computation (CEC 2007), Singapore, September 25-28, 2007
104. Member, International Program Committee for the International Conference on Networks and Communication Systems (NCS 2007), Phuket, Thailand, April 2-4, 2007
105. Member, Program Committee of the 2007 Information Resources Management Association (IRMA) International Conference, Vancouver, Canada, May 19-23, 2007
106. Member, International Program Committee for the International Conference on Communication, Internet and Information Technology (CIIT 2006), St. Thomas, USVI, USA, November 29-December 1, 2006
107. Member, Technical Papers Committee for the “Socio-Economic Implications of Information and Communication Technologies Track” of IEEE Innovations in Information Technology Conference, Dubai, November 19-21, 2006
108. Member, International Program Committee for the International Conference on Communications and Computer Networks (CCN 2006), Lima, Peru, October 4-6, 2006
109. Member, International Conference on Self-Organization and Autonomic Systems in Computing and Communications (SOAS’2006), Erfurt, Germany, September 18 - 21, 2006
110. Member, International Program Committee for the International Conference on Internet and Multimedia Systems and Applications (IMSA 2006), Honolulu, USA, August 14-16, 2006
111. Member, International Program Committee for the International Conference on Computational Intelligence (CI 2006), Calgary, Canada, July 17-19, 2006
112. Member, Program Committee of the International Workshop on Agent-Oriented Software Development Methodologies (AOSDM’06) at the 3rd International Conference on Software Engineering and Knowledge Engineering , San Francisco, USA, July 5 -7, 2006
113. Member, IEEE International Conferences on Cybernetics & Intelligent Systems (CIS) and Robotics, Automation & Mechatronics (RAM)(CIS-RAM 2006), Bangkok, Thailand, June 7 – 9, 2006
114. Member, International Program Committee for the International Conference on Networks and Communication Systems (NCS 2006), Chiang Mai, Thailand, 29-31 March 2006
115. Member, International Program Committee for the International Conference on Internet and Multimedia Systems and Applications (EuroIMSA 2006), Innsbruck, Austria, February 13-15, 2006
116. Member, Technical Program Committee, MATA 2005, the Second International Workshop on Mobility Aware Technologies and Applications, Montreal, Canada, October 17-19, 2005
117. Member, International Conference on Self-Organization and Adaptation of Multi-agent and Grid Systems (SOAS’2005) at University of Paisley, Glasgow, Scotland, United Kingdom, 11 - 13 December 2005
118. Member, International Program Committee for the International Conference on Intelligent Systems and Control (ISC 2005), Cambridge, USA, October 31- November 2, 2005
119. Member, International Program Committee for the International Conference on Communications, Internet and Information Technology (CIIT 2005), Cambridge, USA, October 31-November 2, 2005
120. Member, International Program Committee for the International Conference on Communications and Computer Networks (CCN 2005), Marina Del Rey, USA, October 24-26, 2005
121. Member, Program Committee of the International Workshop on Agent-Oriented Software Development Methodologies (AOSDM’05) at the 3rd International Conference on Software Engineering and Knowledge Engineering , Taipei, Taiwan, July 14 -16, 2005
122. Member, International Program Committee for the International Conference on Computational Intelligence (CI 2005), Calgary, Canada, July 4-6, 2005
123. Member, International Program Committee for the International Conference on Internet and Multimedia Systems and Applications (IMSA 2005), Honolulu, Hawaii, August 15-17, 2005
124. Member, International Program Committee for the International Conference on Networks and Communication Systems (NCS 2005), Krabi, Thailand, April 18-20, 2005
125. Member, International Program Committee for the International Conference on Internet and Multimedia Systems and Applications (EuroIMSA 2005), Grindelwald, Switzerland, February 21-23, 2005
126. Member, Program Committee of the Information Resources Management Association (IRMA) International Conference, 2005

127. Member, Program Committee, International Workshop on Agents and Autonomic Computing and Grid Enabled Virtual Organizations (AAC-GEVO'2004), 3rd International Conference on Grid and Cooperative Computing (GCC'2004) Wuhan, China, 21-24 October, 2004
128. Member, International Program Committee for the International Conference on Communications, Internet and Information Technology (CIIT 2004), St. Thomas, Virgin Islands, USA, November 22- 24, 2004
129. Member, International Program Committee for the International Conference on Intelligent Systems and Control (ISC 2004), Honolulu, Hawaii, USA, August 23- August 25, 2004
130. Member, Technical Program Committee, MATA 2004, the First International Workshop on Mobility Aware Technologies and Applications, Florianópolis – Brazil, Oct. 20-22, 2004
131. Member, International Program Committee for the 2nd International Conference on Communication and Computer Networks (CCN 2004), MIT Cambridge, USA, November 8- November 11, 2004
132. Member, International Program Committee for the International Conference on Internet and Multimedia Systems and Applications (IMSA 2004), Kauai, Hawaii, USA, August 16- August 18, 2004
133. Member, Program Committee of the Information Resources Management Association (IRMA) International Conference, 2004
134. Track Chair, the 2004 Information Resources Management Association (IRMA) International Conference, New Orleans, LA, May 23-26, 2004
135. Member, International Program Committee for the International Conference on Communications, Internet and Information Technology (CIIT 2003), Scottsdale, AZ, USA, November 17- November 19, 2003
136. Member, International Program Committee for the 7th annual International Conference on Internet and Multimedia Systems and Applications (IMSA-2003), Honolulu, Hawaii, USA, 2003
137. Member, International Program Committee for International Conference on Intelligent System and Control (ISC 2003), Salzburg, Austria, June 25-27, 2003
138. Member, Program Committee of the Information Resources Management Association (IRMA) International Conference, 2003
139. Session Chair, International Conference on Internet and Multimedia Systems and Applications (IMSA 2002), Kauai, USA, August 12 - 14, 2002
140. Member, International Program Committee for the International conference on "Artificial and Computational Intelligence - ACI 2002", Tokyo Institute of Technology, Tokyo, Japan from September 26-28, 2002
141. Member, International Program Committee for the International Conference Communications, Internet, and Information Technology (CIIT 2002), St. Thomas, US Virgin Islands, November 18-20, 2002
142. Member, International Program Committee for the Internet and Multimedia Systems and Applications Conference (IMSA-2002)
143. Member, Program Committee of IRMA2002 International - The 2002 Information Resources Management Association, 2002
144. Member, IASTED Technical Committee on "The Web, Internet & Multimedia" for the period 2001-2004
145. Member, IASTED Technical Committee on Intelligent Systems and Control for the period 2001-2004
146. Member, Technical Program Committee of the Sixth IEEE Symposium on Computers and Communications (ISCC2001), 2001
147. Member, Program Committee of Parallel and Real Time Systems Conference (PART2000), Sydney, Australia, 29 - 30 November 2000
148. Member, Program Committee of Parallel and Real Time Systems Conference 1999 (PART99)
149. Member, program committee of the first Workshop on Real-Time and Media Systems, Academia Sinica, Taipei, Taiwan, 1995
150. Member, Technical program committee of the 8th International Joint Workshop on Computer Communication, Taiwan, Dec. 1993

Large Groups Led

- Chaired the SIG for LAN/FDDI in Taiwan with 20+ members
- Led and managed a R&D department in Industrial Technology Research Institute, Taiwan with 30+ staff
- Led a research group in multimedia at Yuan-Ze University with 10+ research students & staff
- Led a research team at National University of Singapore in computational intelligence & e-commerce with 22 members

- Led the intelligent systems research group at Brunel with 13 students and staff

Citations

- [Google Scholar](#)
- [Collection of Computer Science Bibliographies](#) (au:"sheng uei guan" au:"steven guan")
- [DBLP](#)
- H-index: 24
- i10-index: 58

Ph.D. Thesis Advisor

Hussein Abdel-Wahab

Ph.D. Students Supervised

Main supervisor: Fangming Zhu, Kiruthika Ramanathan, Syn Kiat Tan, Wenting Mo, Chunyu Bao, Ting Wang, David Olalekan Afolabi, Fangzhou Liu, Xuan Zhao

Co-supervisor: Lei Zhang, Jieming Ma, Wei Bai

Number of Postgrad (M.Sc., M. Eng., M.Phil.) Students Supervised (with Thesis)

37 (1994 - 2014)

Number of Honours (Final-Year Students) Supervised (with Thesis)

97 (1996 - 2014)

TEACHING

Course title	Lecture, Tutorial or Project
Xi'an Jiatong-Liverpool University(2008 - now)	
1. Data Structures and Algorithms	L&T
2. Computer Systems	L&T
Brunel University (2006 - 2007)	
1. Engineering Maths	L&T
National University of Singapore (1998 - 2006)	
1. Technology Assessment	P
2. Software Engineering	L&T&P
3. Computer Science (C Language, Algorithms & Data Structure)	L&T
4. Digital Design Fundamentals (tutorial)	T
5. Microprocessor Design (tutorial)	T
6. EE3001 Project on Technology Development - Development of a Web-based Remote Monitoring and Control System	P
7. Multimedia & Web Technology	L&T&P
8. Computer Communication Networks II	L&T&P
9. Engineering Maths	L&T
10. Inside Your Personal Computer	L&T
La Trobe University (1996-1998)	
1. Protocol, Performance and Routing	L&T
2. System Programming in Unix and C	L&T

3. Multimedia Systems	L&T
Yuan-Ze University (1992 - 1995)	
1. Multimedia Computing Systems	L&T
2. Unix Operating Systems	L&T
3. Programming Languages	L&T
4. Operating Systems	L&T
5. High Speed Networking	L&T
6. Technical Writing and Communication	L&T
7. C Language	L&T
8. Advanced Topics in Computer Science	L&T
National Tsinghua University (adjunct staff, 1989-1992)	
1. Multimedia Computing Systems	L&T
National Taiwan Normal University (adjunct staff, 1989-1992)	
1. Numerical Analysis	L&T
2. Computer Architecture & Organization	L&T
Tamkang University (adjunct staff, 1989-1991)	
1. Distributed Systems	L&T
2. Computer Supported Cooperative Work	L&T
Providence University (adjunct staff, 1990)	
1. Data Structure & Algorithms	L&T
Chung Hua University (adjunct staff, 1991)	
1. Multimedia Computing Systems	L&T

Legends: L – Lecture; T – Tutorial; P - Project

REFERENCES

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PUBLICATIONS**Refereed Journal Papers**

1. Tai-Yang Hwang and **Sheng-Uei Guan**, "Generalized Minimum Distance Decoding on Majority Logic Decodable Codes", IEEE Trans. on Information Theory, 790-792, Vol. IT-28, No. 5, Sep. 1982.
2. Hussein Abdel-Wahab, **Sheng-Uei Guan** and Jay Nievergelt, "Shared Workspaces for Group Collaboration: An Experiment using Internet and UNIX Interprocess Communications", IEEE Communications, 10-16, Vol. 26, No. 11, Nov. 1988.
3. **Sheng-Uei Guan**, Hussein Abdel-Wahab and Peter Calingaert, "Jointly-Owned Objects for Collaboration: Operating System Support and Protection Model", Journal of Systems and Software, 85-95, Vol. 16, No. 2, Oct. 1991.
4. **Sheng-Uei Guan** and Hussein Abdel-Wahab, "Multi-User Processes and Shared Capabilities-Lists for Shared Workspace Collaboration", Journal of Systems and Software, 3-12, Vol. 19, No. 1, Sep. 1992.
5. Ching-Chih Chen, **Sheng-Uei Guan** and Ji-Cherng Lin, "Distributed Group Server", Journal of Computers, Vol. 5, No. 2, Jun. 1993.
6. Yu-Ming Huang and **Sheng-Uei Guan**, "A Refined Cut-Through Buffer Management Scheme for Layered Protocol Stack", IEEE Communications, 82-85, Vol. 32, No. 3, Mar. 1994.
7. Yu-Yen Huang, Wei-Jen Su and **Sheng-Uei Guan**, "A Multimedia Chinese Hyperbook - Architecture, Design and User Interface", MIS Review, 35-42, Vol. 4, Dec. 1994.
8. Chang-Li Lin and **Sheng-Uei Guan**, "Research on X-Brainstorming System across Different Platforms", Journal of Computers, 40-47, Vol. 6, No. 1, Spring 1994.
9. Chang-Li Lin and **Sheng-Uei Guan**, "The Design and Architecture of a Video Library System", IEEE Communications (Featured Topic Issue on Enterprise Networking), 86-19, Vol. 34, No. 1, Jan. 1996.
10. **Sheng-Uei Guan**, Hsiao-Yeh Yu, Jen-Shun Yang, "A Prioritized Petri Net Model and Its Application in Distributed Multimedia Systems", IEEE Transactions on Computers, 477-481, Vol. 47, No. 4, Apr. 1998.
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13. Li Su, **Sheng-Uei Guan**, and Ye-Chuan Yeo, "Incremental Self-Growing Neural Networks with the Changing Environment", Journal of Intelligent Systems, 43 - 74, Vol. 11, No. 1, 2001.
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15. **Sheng-Uei Guan** and Shanchun Li, "Incremental Learning with Respect to New Incoming Input Attributes", Neural Processing Letters, 241-260, Vol. 14, Issue 3, Dec. 2001.
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20. **Sheng-Uei Guan** and Fangming Zhu, "Agent Fabrication and Its Implementation for Agent-based Electronic Commerce", International Journal of Information Technology and Decision Making (IJITDM), 473-490, Vol. 1, No. 3, Sep. 2002.
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27. **Sheng-Uei Guan** and Shu Zhang, "An Evolutionary Approach to the Design of Controllable Cellular Automata Structure for Random Number Generation", *IEEE Trans. on Evolutionary Computation*, 23-36, Vol. 7, No. 1, Feb. 2003.
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30. **Sheng-Uei Guan**, Tianhan Wang and Sim-Heng Ong, "Migration Control for Mobile Agents based on Passport and Visa", *Future Generation Computer Systems*, 173-186, Volume 19, Issue 2, February 2003. (Ranked 1st among the top 25 of the most downloaded articles for Future Generation Computer Systems from January to May 2003.)
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38. **Sheng-Uei Guan**, Shu Zhang, and Marie Therese Quieta, "2-d CA Variation with Asymmetric Neighborhood for Pseudorandom Number Generation", *IEEE Trans. on Computer Aided Design of Integrated Circuits and Systems*, 378-388, Vol. 23, No. 3, Mar. 2004.
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