Professor Wei Zhao

Curriculum Vitae

Printable Version

[Education] [Experiences] [Awards] [Honorary Doctoral Degrees]
[Inventions] [Grants] [Projects] [Publications] [PHD Students] [University
Services] [Professional Activities]

Education [TOP]

- Ph.D.: February 1986, Department of Computer Science, University of Massachusetts at Amherst (Ph.D. Dissertation: A Heuristic Approach to Scheduling Hard Real-Time Tasks with Resource Requirements in Distributed Systems, nominated for ACM Doctoral Dissertation Award).
- M.S.: May 1983, Department of Computer Science, University of Massachusetts at Amherst (M.S. Project: Improvement on Habermann's Algorithm for Deadlock Avoidance).
- B.S. (equivalent): July 1977, Department of Physics, Shaanxi Normal University, Xi'an.

Working Experiences [TOP]

- 2008 - : Rector, University of Macau.
- 2008 - : Chair Professor, University of Macau.
- 2007 - 2008: Dean of Science, Rensselaer Polytechnic Institute.
- 2007 - 2008: Professor of Computer Science, Rensselaer Polytechnic Institute.
- 2005 - 2007: Division Director, Computer and Network Systems, National Science Foundation.
- 2001 - 2007: Senior Associate Vice President for Research, Texas A&M University.
- 1997 - 2001: Head, Department of Computer Science, Texas A&M University.
- Jan. 1997 - Aug. 1997: Full Professor of Computer Science, City University of Hong Kong.
- 1990 -1997: Associate/Full Professor, Texas A&M University.
- 1988 - 1990: Senior Lecturer, University of Adelaide.
- 1986 - 1988: Assistant Professor, Amherst College.

- Feb. 1986 - Sept. 1986: Post-Doctoral Research Associate, University of Massachusetts at Amherst.
- 1982 - May 1985: Teaching and Research Assistant/Associate, University of Massachusetts at Amherst.
- 1977 - 1982: Instructor, Shaanxi Normal University.

Awards and Honors [TOP]

- Keynote Speaker, 2015 IEEE Conference on Computer Communications (INFOCOM), April 28, 2015.
- China Computer Federation (CCF) Award for Overseas Outstanding Contributions, 2015.
- Overseas Expert, The Chinese Academy of Sciences (CAS), 2014 - .
- Vice Chairman, The Chinese Educators' Association of Macau, 2013 - 2016.
- Advisor, Macao Cultural Creativity Industry Research Center, June 2013 - .
- Advisor, China Computer Federation Task Force on Big Data (CCF-TFBD), June 3, 2013 - .
- Honorary Fellowship, Asian College of Knowledge Management (ACKM), February 22, 2012.
- Honorary Fellowship, Canadian Chartered Institute of Business Administration (CIBA), February 22, 2012.
- Outstanding Technical Achievement and Leadership Award, The 32nd IEEE Real-Time Systems Symposium (RTSS), December 1, 2011.
- Listed in Who's Who in Asia 2012 (2nd edition), Marquis Who's Who, August, 2011.
- Outstanding Achievement Award (OAA) in Education, Computer Science Department of the University of Massachusetts at Amherst, May 6, 2011.
- Principal Member of the Professional Advisory Committee, Macao Creative Industry Association, November 2010 - .
- Honorary Advisor, The Chinese Educator's Association of Macau, October 2010 - .
- Committee Advisor (The Ninth Committee), Guangzhou Assocation for Science and Technology, 2010 - 2014.
- Advisory Committee Member, The Fifth Symposium on Sustainable Development of Guangdong, Associação dos Engenheiros de Macau (Macao Engineers Association), September 27 - 30, 2010.
- Advisor, Associação de Divulgação da Lei Básica de Macau (Macao Basic Laws Promotion Association), 2010 - .
- Chief Scientist (for 973 Project), Tongji University, March 2010 - March 2013.
- Honorary Professorship, Soochow University, 2009.
- Honorary Professorship, Suzhou Institute for Advanced Study, University of Science and Technology of China, 2009.
- Member of Advisory Committee, Kiang Wu Nursing College of Macau, 2009 - 2012.
- Keynote Speaker, The 6th Beijing International Education Expo, June 2009.
- Board Member, United Nations University - Institute on Computing and Society (UNU-CS), 2008 - 2018.
- Foreign Expert, Institute of Computing Technology of the Chinese Academy

- of Sciences, 2009 - 2019.
- Best Paper Award, IEEE International Conference on Communications, 2008.
- Keynote Speaker, the First International Workshop on Cyber-Physical Systems, June 2008.
- Keynote speaker, the IFIP International Conference on Embedded and Ubiquitous Computing, December 2007.
- Keynote speaker, China National Computer Conference, October 2006 and October 2007.
- Oversea Achievement Award by China Computer Federation, October 2007.
- Keynote Speaker, the 4th IEEE International Symposium on Network Computing and Applications, July 2005.
- Keynote Speaker, the Annual Conference of Chinese Association of Science and Technology, June 2005.
- Life Achievements Award, Chinese Association of Science and Technology, June 2005.
- IEEE Fellow, since January 1, 2001.
- Distinguished Speaker, The Ohio State University, 2004.
- Keynote Speaker, NSFC Conference on Computer Networks, February 2004.
- Keynote Speaker, Being Professors in the USA Forum, March 2003.
- Outstanding Achievement Award, Chinese Association of Science and Technology, November 2002.
- Keynote Speaker, Sino-US Symposium on Hi-Tech and Economic Developments and the 4th Conference of FACPSU, May 2002.
- Award on Spirit of Technology Transfer, DARPA, January 2002.
- Keynote Speaker, International Conference on Algorithms and Architectures for Parallel Processing, 2000.
- Listed in International Man of the Millennium, International Biographical Center, 1999.
- Keynote Speaker, 10th International Conference on Parallel and Distributed Computing and Systems, October 1998.
- Keynote Speaker, 23rd IFAC/IFIP Workshop on Real Time Programming, June 1998.
- Listed in Who's Who in Science and Engineering (4th edition), Marquis Who's who, 1998.
- Listed in Twentieth Century Distinguished Who's Who, 1996.
- Invited Distinguished Speaker, International Conference on Computing Systems, October 1996.
- Listed in Asia's Who's Who of Men and Women of Achievement, Vol. IX, 1996.
- Keynote Speaker, IEEE International Workshop on Parallel and Distributed Real-Time Systems, April, 1994.
- TEES Fellow, College of Engineering, Texas A&M University and Texas Engineering Experiment Station, October 1993.
- Faculty Recognition, College of Engineering, Texas A&M University and Texas Engineering Experiment Station, February 1993.
- Outstanding Paper Award of the IEEE International Conference on Distributed Computing Systems, June 1992.
- Listed in Austral-Asian Who's Who (2nd edition), 1991.

- Scholarship from Western Computer Science Institute, Summer 1984.

Honorary Doctoral Degrees [TOP]

- Universidade de Aveiro
- Universidade Técnica de Lisboa
- Universidade Nova de Lisboa
- Universidade dedo Minho
- Universidade de Evora
- Universidade dos Acores
- Universidade do Algarve
- ISCTE Instituto Universitario de Lisboa
- Universidade da Madeira
- Universidade da Beira Interior
- Universidade de Trás-os-Montes e Alto Douro
- Universidade de Porto

Inventions [TOP]

- Wei Zhao, Dong Xuan, Yuanfang Zheng, Jin Teng, Junda Zhu, Boying Zhang, Xinfeng Li, Biao Chen, Jianjia Wu, and Wei Li, Video Detection Method and System Based on Electronic Imprint (一种基于电子印迹的视频检测方法及系统), P.R.C. Patent, CN Application No. 201210074456.3.
- Wei Zhao, B. Chen, and G. Agrawal, Local Synchronous Bandwidth Allocation in a Token Ring Network, U.S. Patent, No. 5,313,466.
- Wei Zhao, G. Agrawal, B. Chen, S. Davari, Normalized Proportional Synchronous Bandwidth Allocation in a Token Ring Network, U.S. Patent, No. 5,404,424.

External Grants and Contracts (Details) [TOP]

- The Fundamental Theory for Exploring and Analyzing Hidden Web Data, P.I.: Wei Zhao, The Macao Science and Technology Development Fund (FDCT), MOP3,010,000 (US$376,250), January 2015 - January 2018.
- Theoretical Foundation, Design Methodologies, and Supporting Technologies for Cyber Physical Networking Systems, P.I.: Wei Zhao, The Macao Science and Technology Development Fund (FDCT), MOP4,042,000 (US$505,250), June 2012 - June 2016.
- 973 Project (物联网基础理论和设计方法研究 , 2011CB302800), P.I.: Wei Zhao, RMB9,530,000 (US$1,468,400), January 2011 - August 2013.
- Robust Location Identification Technologies for Challenging Wireless Networking Environment, P.I.: Wei Zhao, The Macao Science and Technology Development Fund (FDCT), MOP2,108,000 (US$263,500), December 2009 - May 2014.
- Proper Location Identification in Wireless Networks, Co-PIs: Nan Zhang

(University of Texas at Arlington), Xinwen Fu (Dakota State University), Wei Zhao, National Science Foundation, US$630,000, September 1, 2007 - August 31, 2010.

- A Symposium on Cyber-Enabled Discoveries and Innovations, P.I.: Wei Zhao, National Science Foundation, US$55,000, August 1, 2007 - December 31, 2008.
- Inter-governmental Personnel Act (IPA) Assignment, P.I.: Wei Zhao, National Science Foundation, US$703,089, Oct 16, 2004 - Oct 15, 2007.
- Workshop on Advances in Computer and Computational Sciences, P.I.: Wei Zhao, National Science Foundation, US$24,000, September 1, 2004 - December 31, 2005.
- Technology Development for Observation Systems, Co-PIs: Dick Ewing, Wei Zhao, et al, US$715,000, ONR and NOAA (via Southeastern Universities Research Association), September 1, 2004 - August 31, 2005.
- Development of an Effective Cyber-Security Workforce, P.I.: Wei Zhao, National Security Agency, US$160,742, September 1, 2004 - December 31, 2005.
- Intellectual Property Rights and Technology Transfer, Department of State, US$199,297, Co-PIs: Nader, Rick and Wei Zhao, June 1, 2004 - May 31, 2005.
- ITR: DDDAS: Data Dynamic Simulation for Disaster Management, Co-P.I.s: J. Mandel, Bob Kremens, C. Douglas, J. Coen, L. Franca, T. Puhalskii, T. Vodacek, and Wei Zhao, US$2,068,000, NSF, September 1, 2003 - August 31, 2007.
- Overlay Network Support for Remote Visualization of Time-Varying Data, Co-P.I.s: D. Xue, H. Shen (Ohio State University), and Wei Zhao, US$400,000, NSF/ACR, September 1, 2003 - August 31, 2006.
- Adaptive End-to-End Quality of Service for Intelligent Dynamic Optical Wireless Networks, Co-P.I.s: A. Pavan, R. Carter, I. Cardei (Honeywell Technology Center), Wei Zhao, and R. Bettati, US$488,468 (TAMU subcontract US$103,845), DARPA/AFRL, April 1, 2002 - July 31, 2003.
- Real-Time Technology and Application Symposium, P.I. Wei Zhao, Co-P.I. D. Mosse, NSF, US$12,000, May 2001 - April 2002.
- On a Virtual Laboratory for Network Engineering Educational Programs, P.I.: Wei Zhao, Co-P.I.s: Jyh-Charn (Steve) Liu, and Willis Marti, NSF, US$343,806, September 2001 - September 2003.
- Effective Resource Management for Differentiated Services, P.I.: Biao Chen, Co-P.I.s: Wei Zhao and S. Q. Zhengi, Texas Higher Education Coordination Board, US$149,100, January 2000 - December 2001.
- Secured Real-Time Communications in High Performance Networks, P.I.: Wei Zhao, Co-P.I.s: R. Bettati and Sadegh Davari, Texas Higher Education Coordination Board, US$120,706, January 2000 - December 2001.
- Providing Reliable Real-Time Communications to Mission Critical Applications, P.I.: Wei Zhao, Co-P.I.s: R. Bettati and N. Vaidya, DARPA, US$1,521,590 (+ cost shared with TAMU, UIUC, and Tri-Pacific Inc), June 1999 - June 2004.
- Wireless Networking and Collaborative Knowledge Building Research, P.I.s N. Vaidya, Wei Zhao, F. Shipman, and R. Bettati, NSF, US$75,000 (including TAMU matching US$25,000), March 1999 - March 2000.
- Test and Analysis of Software Timing Properties, P.I.s: Wei Zhao and Jianer Chen, Millennium Technologies, funded US$21,500, December 1997 – August 1999.

- Survey on Real-Time Fault-Tolerant Computation and Communication, ONR, P.I.: Wei Zhao, competitive and subject to peer review, funded US$4,900, June 1997 - May 1998.
- Real-Time Resource Management Adaptation with Predictable Real-Time Performance, DARPA, P.I.: R. Jha (Honeywell Technology Center), Co-P.I.s: S. Karsten (Georgia Institute of Technology), Wei Zhao and R. Bettati (Texas A&M University), competitive and subject to peer review, US$1,900,000 (TAMU subcontract US$280,000), June 1997 - May 2000.
- ATM-Based Heterogeneous Communication: Traffic Analysis and Management, Hong Kong City University Strategic Research Grant, Co-P.Is.: Wei Zhao, T. Y. Cheung, and W. Jia, competitive and subject to peer review, funded HK$311,410, August 1997 – July 1999.
- Distributed Computing & Real-Time Networking Research, NSF, Co-P.I.s: N. Vaidya, J. Welch, N. Amato, and Wei Zhao, competitive and subject to peer review, funded US$108,000 (including TAMU matching US$35,760), March 1996 - March 1998.
- Real-Time Communications in Heterogeneous Networks, AFOSR, P.I.: Wei Zhao, competitive and subject to peer review, funded US$206,000, March 1996 - March 1999.
- Connection-Oriented Real-Time Communications over Heterogeneous Networks, Texas Higher Education Coordination Board, , P.I.: Wei Zhao, competitive and subject to peer review, funded US$95,998, January 1996 - August 1998.
- Real-Time Technology and Applications Symposium, ONR, Co-P.I.s: Wei Zhao and J. Chen, funded US$7,000, December 1995 - August 1996.
- Fault-Tolerant Real-Time Communications in High Performance Networks, ONR, P.I.: Wei Zhao, competitive and subject to peer review, funded US$200,000 (including TAMU matching US$25,000), November 1994 - November 1997.
- Scheduling Issues for Space Computing Systems, NASA/JSC, Co-P.I.s: S. Davari (UHCL), T. Leibfried (UHCL) and Wei Zhao, competitive and subject to peer review, funded US$58,000 (TAMU subcontract: US$29,000), June 1994 - July 1995.
- Control in Distributed Real-Time Multi-Version Computation Systems, Texas Higher Education Coordination Board, P.I.: Wei Zhao, competitive and subject to peer review, funded US$104,402, January 1994 - January 1996.
- Using FDDI for Fault-Tolerant Real-Time Communications: source code and engineering support, Cisco, Co-P.I.s: Wei Zhao and W. Marti, (cash equivalent US$35,000), September 1993 - September 1995.
- Integrated Security and Real-Time Service for SAFENET, ONR, P.I.: Wei Zhao, competitive and subject to peer review, funded US$119,995, Sept 1993 - March 1997.
- Fault Tolerant Hard Real-Time Communications with the Survivable Adaptable Fiber Embedded Networks, ONR, P.I.: Wei Zhao, competitive and subject to peer review, funded US$119,305, September 1992 - September 1994.
- Fault-Tolerant Guarantee of Hard Real-Time Message Deadlines in FDDI Networks, AFOSR, P.I.: Wei Zhao, competitive and subject to peer review, funded US$192,787, July 1992 - August 1995.
- Guaranteeing Hard Real-Time Deadlines with the Timed Token Protocol, NSF, P.I: Wei Zhao, competitive and subject to peer review, funded

- US$109,322 (including TEES matching US$10,000), August 1992 - July 1995.
- Parallel and Distributed Computation, NSF Small Scale Infrastructure Grant, P.I.s: D. Volz, L. Bhuyan, and U. Pooch, competitive and subject to peer review, funded US$1,400,000 (with TEES matching), 1992 - 1995.
- Workshop on Imprecise and Approximate Computation, ONR, Co-P.I.s: Wei Zhao and S. Natarajan, funded US$5,000, November 1992 - April 1993.
- Design Support Platform for Real-Time Computer Systems used in NASA Space Programs, NASA/JSC, Co-P.I.s: S. Natarajan, W. Zhao, S. Davarri (UHCL), T. Leibfried (UHCL), funded US$50,000 (TAMU subcontract US$25,000), December 1992 - December 1993.
- Coordinated Scheduling for Dynamic Real-Time Systems, NASA/Ames, Co-P.I.s: Wei Zhao and S. Natarajan, competitive and subject to peer review, funded US$50,000, July 1992 - July 1993.
- Integrated Scheduling Support for Space Station, RICIS/UHCL, Co-P.I.s Wei Zhao and S. Natarajan, funded US$8,352 + US$48,984 = US$57,336, June 1991 - October 1992.
- Space Station System Integration Support, McDonnell Douglas, Co-P.I.s: Sha, L., S. Davari, and Wei Zhao, funded US$50,000 (TAMU subcontract: US$11,707), January 1992 - December 1992.
- Integrated Scheduling Techniques for Space Vehicle Programs, NASA/JSC, Co-P.I.s S. Davari (UHCL) and Wei Zhao, competitive and subject to peer review, funded US$52,836 (TAMU subcontract: US$26,576), June 1992 - April 1993.
- Token Ring Protocols for Real-Time Communication, Australian Research Council, Co-P.I.s: Lim, C. and Zhao, W., competitive and subject to peer review, funded A$29,200, January 1991 - December 1992.
- Control in Imprecise Computing Systems, Australian Research Council, Co-P.I.s: Wei Zhao, and Lim, C., competitive and subject to peer review, funded A$127,000, January 1990 - December 1992.
- Virtual Time CSMA Protocols for Real-Time Communication, Australian Research Council, Co-P.I.s: Wei Zhao and C. Barter, competitive and subject to peer review, funded A$19,500, January 1990 - December 1991.
- Programming Environment for Real-Time Software, Australian Research Council, Co-P.I.s: Wei Zhao and C. Marlin, competitive and subject to peer review, funded A$24,800, January 1990 - December 1991.
- Parallel Symbolic Processing for A.I., Australian Research Council, Co-P.I., Tao Li, and Wei Zhao, competitive and subject to peer review, funded A$45,700, January 1989 - December 1990.
- Dynamic Intelligent Controller for Operating Systems, The University of Adelaide, P.I.: Wei Zhao, competitive and subject to peer review, funded A$15,000, January 1989 - December 1990.
- Resource Management for Dynamic Distributed Hard Real-Time Systems, Australian Research Council, Co-P.I.s: Wei Zhao and T. Li, competitive and subject to peer review, funded A$21,768, January 1989 - December 1989.
- Resource Management for Dynamic Distributed Hard Real-Time Systems, Amherst College, P.I.: Wei Zhao, competitive and subject to peer review, funded US$5,000, 1988.

Publications (Summary) [TOP]

Edited Books/DVDs   4

Book Chapters	19
Refereed Journals	137
Refereed Conferences	202
Others	32
TOTAL	394

Publications (Edited Books/DVDs) [TOP]

- **2011**
  4. Ming Li and Wei Zhao, <u>Analysis of Min-Plus Algebra</u>, Nova Science Publishers, Inc. ISBN: 978-1-62100-110-2, 4th quarter, 2011.

- **2005**
  3. L. Yang, X. Zhou, Wei Zhao, Z. Wu, Y. Zhu, and M. Lin (co-editors), <u>Embedded Software and Systems</u>, in the Proceedings of *the International Conference on Embedded Software and Systems (ICESS)*, Lecture Notes in Computer Science, vol. 3820, DOI: 10.1007/11599555, December 16-18, 2005.
  2. X. Lu and Wei Zhao (co-editors), <u>Networking and Mobile Computing</u>, in the Proceedings of *the International Conference on Computer Networks and Mobile Computing (ICCNMC)*, Lecture Notes in Computing Sciences, August 2005.
  1. M. Liu and Wei Zhao (co-editors), the Proceedings Collections of *the IEEE International Conferences on Distributed Computing Systems (ICDCS)*, June 2005.

Publications (Refereed Book Chapters) [TOP]

- **2013**
  19. Wei Zhao, <u>大 學 的 管 理 模 式 要 有 階 段 性</u>, *大 學 的 治 理*, 黃 達 人 等 著 , 商 務 印 書 館 , pp. 92-99, December 2013.

- **2009**
  18. Chengzhi Li and Wei Zhao, <u>Queueing Delay Analysis of Multi-Radio Multi-Channel Wireless Mesh Networks</u>, in the *Quality of Service Architectures for Wireless Mesh Networks: Performance Metrics and Management,* edited by A. Sasan and J. Raj, IGI Global, USA, chapter 1, 2009.

- **2008**
  17. Ming Li, X. Gu, and Wei Zhao, <u>Experimental Analysis of Pattern Similarity Between Bessel Lernel and Born-Jordan Kernel, Electrical and Computer Engineering Series, A Series of Reference Books and Textbooks</u>, in: *Recent Advances in Systems, Communications & Computers*, edited by Qing Li, S. Y. Chen, Anping Xu, Ming Li, WSEAS Press, Selected Papers from WSEAS Conferences in Hangzhou, China, ISBN: 978-960-6766-61-9, ISSN: 1790-5117, pp. 41-46, April 2008.
  16. M. Li, S. Lim, and Wei Zhao, <u>Long-Range Dependent Network Traffic:</u>

A View from Generalized Cauchy Process, in *Progress in Applied Mathematical Modeling*, edited by F. Yang, Nova Science Publishers, USA, ISBN13: 9781-60021-976-4, chapter 9, pp. 321-338, January 2008.

2005

15. Ming Li and Wei Zhao, A Statistical Model for Detecting Abnormality in Static-Priority Scheduling Networks with Differentiated Services, in *Computational Intelligence and Security*, Springer Berlin/Heidelberg, vol. 3802, pp. 267-272, 2005.
14. S. Wang, R. Nathuji, R. Bettati, and Wei Zhao, Real-Time Guarantees in Wireless Networks, in *Resource Management in Wireless Networking*, edited by M. Cardei, I. Cardei and D. Du, Kluwer Academic Publishers, 16 (2), pp. 81-102, January 2005.

2004

13. J. Mandel, M. Chen, L. P. Franca, C. Johns, A. Puhalskii, J. L. Coen, C. C. Douglas, R. Kremens, A. Vodacek, and Wei Zhao, Dynamic Data Driven Wildfire Modeling, in *Dynamic Data Driven Applications Systems*, edited by F. Darema, Kluwer Academic Publishers, vol. 3038, pp. 725-731, 2004.

2003

12. S. Jiang, N.Vaidya, and Wei Zhao, Energy Consumption of Traffic Padding Schemes in Wireless Ad Hoc Networks, in *Real-Time System Security,* edited by B. Tjaden and L. Welch, Nova Science Publishers, Commack, NY, pp. 21-42, 2003.

2000

11. B. Chen, N.Malcolm, and Wei Zhao, FDDI/CDDI and Real-Time Applications, in *The Telecommunication Handbook*, edited by K. Terplan and P. Marreale, CRC Press and IEEE Press, 2000.

1997

10. Wei Zhao, Local Area Networks, in *Encyclopedia of Science & Technology*, 18th Edition, McGra-Hill, 1997.

1996

9. Wei Zhao, FDDI and its Applications, in *The Communication Handbook*, edited by J. Gibson et al, CRC Press, December 1996.
8. S. Kamat and Wei Zhao, An FDDI-Based Reconfigurable Network for Fault-Tolerant Real-Time Communications, in *Fault-Tolerant Parallel and Distributed Systems*, edited by D. Pradhan and D. Avresky, IEEE Press, pp. 188-199, 1996.

1995

7. Wei Zhao, C. Lim, J. Liu, and P. Alexander, Overload Management in an Imprecise Computation System, in *Imprecise and Approximate*

Computation, edited by S. Natarajan, Kluwer Academic Publishers, 1995.

6. S. Kamat and Wei Zhao, Performance Comparison of Two Token Ring Protocols for Real-Time Communications, in *Principle of Real-Time Systems*, edited by S. Son, Prentice Hall, pp. 117-147, 1995.

5. S. Kamat and Wei Zhao, Real-Time Performance of Two Token Ring Protocols, in *Advances in Real-Time Systems*, edited by S. Son, Prentice-Hall, Upper Saddle River, NJ, pp. 117-147, 1995.

1992

4. C. Marlin, K. Ransom, and Wei Zhao, An Integrated Environment for the Development and Analysis of Hard Real-Time Systems, in *Real-Time Programming*, edited by W. Halang and K. Ramamritham, Pergamon Press, Oxford, pp. 27-32, 1992.

1991

3. J. Liu, K. Lin, W. Shih, A. Yu, J. Chung, and Wei Zhao, Algorithms for Scheduling Imprecise Computations, in *Foundations of Real-Time Computing: Scheduling and Resource Management*, edited by A. Tilborg and G. Koob, Kluwer Academic Publishers, pp. 203-250, 1991.

1989

2. T. Li, Wei Zhao, and N. Carter, A VLSI Architecture For On-line Scheduler in Real-Time Systems, in *Computing and Information*, edited by R. Janicki and W. W. Koczkodaj, North-Holland, pp. 201-206, 1989.

1. E. K. P. Chong and Wei Zhao, Task Scheduling for Imprecise Computer Systems with User Controlled Optimization, in *Computing and Information*, edited by R. Janicki and W. Koczkodaj, North-Holland, pp. 441-446, 1989.

Publications (Refereed Journals) [TOP]

2017

137. Dou An, Qingyu Yang, Wei Yu, Xinyu Yang, Xinwen Fu, and Wei Zhao, Sto2Auc: A Stochastic Optimal Bidding Strategy for Microgrids, *IEEE Internet of Things Journal,* vol. pp, issue 99, doi: 10.1109/JIOT.2017.2764879, October 2017.

136. Gang Li, Xinfeng Li, Fan Yang, Jin Teng, Sihao Ding, Yuan F. Zheng, Dong Xuan, Biao Chen, and Wei Zhao, Traffic At-a-Glance: Time-Bounded Analytics on Large Visual Traffic Data, *IEEE Transactions on Parallel and Distributed Systems,* vol. 28, issue 9, pp. 2703-2717, doi: 10.1109/TPDS.2017.2684158, September 2017.

135. Dou An, Qingyu Yang, Wei Yu, Xinyu Yang, Xinwen Fu, and Wei Zhao, SODA: Strategy-Proof Online Double Auction Scheme for Multimicrogrids Bidding, *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, issue 99, pp. 1-14, doi: 10.1109/TSMC.2017/2651072, July 2017.

134. Qingyu Yang, Dou An, Rui Min, Wei Yu, Xingyu Yang, and Wei Zhao,

On Optimal PMU Placement-based Defense against Data Integrity Attacks in Smart Grid, *IEEE Transactions on Information Forensics and Security*, vol. 12, issue 7, pp. 1735-1750, doi: 10.1109/TIFS/2017/2686367, July 2017.

133. Tiangyi Song, Nicholas Capurso, Xiuzhen Cheng, Jiguo Yu, Biao Chen, and Wei Zhao, Enhancing GPS with Lane-level Navigation to Facilitate Highway Driving, *IEEE Transactions on Vehicular Technology*, vol. 66, issue 6, pp. 4579-4591, doi: 10.1109/TVT.2017.2661316, June 2017.

132. Lin Cui, Weijia Jia, Dimitrios P. Pezaros, and Wei Zhao, PLAN: Joint Policy- and Network-Aware VM Management for Cloud Data Centers, *Transactions on Parallel and Distributed Systems,* vol. 28, issue 4, pp. 1163-1175, doi: 10.1109/TPDS.2016.2604811, April 2017.

131. Jie Lin, Wei Yu, Nan Zhang, Xinyu Yang, Hanlin Zhang, and Wei Zhao, A Survey on Internet of Things: Architecture, Enabling Technologies, Security and Privacy, and Applications, *IEEE Internet of Things Journal*, issue 99, pp. 1, doi: 10.1109/JIOT.2017.2683200, March 2017.

130. Wei Yu, Jie Lin, Xinyu Yang, Qingyu Yang, Xinwen Fu, and Wei Zhao, A Real-Time En-route Route Guidance Decision Scheme for Transportation-based Cyber-Physical Systems, *IEEE Transactions on Vehicular Technology*, vol. 66, issue 3, pp. 2551-2566, doi: 10.1109/TVT.2016.2572123, March 2017.

129. Jianjia Wu and Wei Zhao, Design and Realization of WInternet: from Net of Things to Internet of Things, in the *ACM Transactions on Cyber-Physical Systems,* vol. 1, issue 1, doi: 10.1145/ 2872332, February 2017.

2016

128. Bo Cheng, Lin Cui, Weijia Jia, P. Hancke Gerhard, and Wei Zhao, Multiple Regions of Interest Coverage in Camera Sensor Networks for Tele-Intensive Care Units, *IEEE Transactions on Industrial Informatics,* vol. 12, issue 6, pp. 2331-2341, doi: 10.1109/TII.2016.2574305, December 2016.

2015

127. Zimu Yuan, Wei Li, Zhiwei Xu, and Wei Zhao, Beacon Node Placement for Minimal Localization Error, arXiv: 1503.08404v1, submitted on March 29, 2015.

126. Xinyu Yang, Jie Lin, Paul Moulema, Wei Yu, Xinwen Fu, and Wei Zhao, A Novel En-route Filtering Scheme Against False Data Injection Attacks in Cyber-Physical Networked Systems, *IEEE Transactions on Computers,* 64 (3), pp. 4-18, January 2015.

2014

125. Joshua Kraunelis, Yinjie Chen, Zhen Ling, Xinwen Fu, and Wei Zhao, On Malware Leveraging the Android Accessibility Framework, *10th*

International Conference MOBIQUITOUS 2013, vol. 131, pp. 512-523, doi: 10.1007/978-3-319-11569-6_40, September 28, 2014.

124. Qinggang Yue, Zhen Ling, Benyuan Liu, Xinwen Fu, and Wei Zhao, Blind Recognition of Touched Keys: Attack and Countermeasures, arxiv.org, March 2014.

123. Qingyu Yang, Jie Yang, Wei Yu, Dou An, Nan Zhang, and Wei Zhao, On False Data-Injection Attacks Against Power System State Estimation: Modeling and Countermeasures, *IEEE Transactions on Parallel and Distributed Systems*, 25 (3), pp. 717-729, doi: 10.1109/TPDS.2013.92, March 2014.

2013

122. Z. Yun, J. Teng, Z. Yu, D. Xuan, B. Chen, and Wei Zhao, Connected Optimal Two-Coverage of Sensor Networks, *IEEE/ACM Transactions on Networking,* vol. PP (99), pp. 1-12, doi:10.1109/ TNET.2013.2267624, 2013.

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Publications (Others) [TOP]

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--- WInternet Protocol Specification V1.1, April 2015.

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    26. Wei Zhao, Challenges in Design and Implementation of Middlewares for Real-Time Systems: Guest Editor's Introduction, in *Journal of Real-Time Systems*, vol. 20, No. 2, pp. 115-116, March 2001.

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15. Wei Zhao, Predictability and Scalability of Real-Time Scheduling, in the *Proceedings of the 5th Euromicro Workshop on Real-Time Systems*, pp. 137, June 1993.
14. Wei Zhao, Guarantees of Hard Real-Time Communications in FDDI Networks, in the *Proceedings of the IDA Workshop on Large, Distributed, Parallel Architecture Real-Time Systems*, pp 119-129, March 1993.
13. Wei Zhao, Fault-Tolerant Hard Real-Time Communications with SAFENET, in the *Proceedings of the 1st ONR Workshop on Embedded Systems*, pp. 57, January 1993.

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  11. S. Kamat and Wei Zhao, Performance Comparison of Token Ring Networks for Real-Time Applications, in the *Proceedings of the RICIS Symposium on Mission Safety Critical Systems*, October 1992.
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  9. S. Davari and Wei Zhao, RMS Aids Real-Time Scheduling, in RICIS Review, Vol 3, No. 1, pp. 2-8, 1991.
  8. J. Liu, K. Lin, W. Shih, A. Yu, J. Chung, and Wei Zhao, <u>Algorithms for Scheduling Imprecise Computations</u>, in the *Proceedings of ONR 3rd Annual Workshop on Foundations of Real-Time Computing Research Initiative*, pp. 95-125, October 1990.

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  5. Wei Zhao and M. Berger, <u>OSPERT - An Expert System for Control of Operating Systems in Large and Complex Computer Systems</u>, in the *Proceedings of Fifth International Conference on Expert Systems and Neural Networks*, pp. 178-182, August 1989.
  4. Wei Zhao and M. Berger, Adaptive Control of Imprecise Distributed Systems, in the *Proceedings of International Conference on Adaptive and Knowledge-based Control and Signal Processing*, pp. 217-221, August 1989.
  3. N. Malcolm, Wei Zhao, and C. Barter, CSMA Guarantee protocols for Hard Real-Time Communications, in the *Proceedings of 4th Australian Telecommunications and Electronics Research Board Fast Packet Switching Workshop*, Sydney, July 1989.
  2. Wei Zhao, <u>Guest Editor's Introduction</u>, Special Issue on Real-Time Computing Systems, in *Operating Systems Review*, Vol. 23, No. 3, pp. 12-13, July 1989.

- **1986**

  1. Wei Zhao, A Heuristic Algorithm for Scheduling Hard Real-Time Tasks with Resource Requirements, in the *Proceedings of IEEE*

Third Workshop on Real-Time Operating Systems, pp. 61-66, February 1986.

Ph.D. Students [TOP]

- Zhibin Mai, Schlumberger.
- Wei Yu, Towson University.
- Nan Zhang, George Washington University.
- Gopal Agrawal, Texas A&M University at Texarkana.
- Biao Chen, University of Texas at Dallas.
- Badari Devalla, Nortel.
- Fang Feng, IBM.
- Xinwen Fu, University of Massachusetts, Lowell.
- Yong Guan, Iowa State University.
- Sanjay Kamat, Lucent.
- Nick Malcolm, HP.
- Amitava Raha, Fujisu.
- Anirudh Sahoo, India Institute of Technology.
- Steven Swanson, Astronaut Candidate, NASA.
- Dong Xuan, Ohio State University.
- Jianjia Wu, Texas A&M University.
- Lijun Yao, Australia Telecom.

University Services [TOP]

- Chair of Patriot Act Task Force, 2002 - 2005.
- Liaison of Telecommunication and Information Technology Task Force, 2001 - 2005.
- Funding Director of Texas A&M Center of Information Assurance and Security, 2002 - .
- Director of Texas A&M Institute for Telecommunications and Information Technologies, 2001 - .

External Professional Activities [TOP]

- **Professional Societies [TOP]**
  - Member of 2015 IEEE CS Fellows Evaluation Commitee, 2015.
  - Academician of the China Science Center of International Eurasian Academy of Sciences (IEAS CHINA), November 2012 - .
  - Member of the Academic Executive Board, National Science Foundation Cyber-physical Systems Virtual Organization (CPS-VO), 2011 - .
  - Fellow of The Hong Kong Institution of Engineers (HKIE), 2011 - .
  - Member of the IEEE Fellow Evaluation Committee, 2009 - .
  - Fellow of the IEEE, 2001 - .
  - Chair of the Executive Committee of IEEE CS Technical Committee on Real-Time Systems, 2005 – 2006.
  - Vice Chair of the Executive Committee of IEEE CS Technical Committee on Real-Time Systems, 2003 – 2004.
  - Member of the Advisory Committee of IEEE CS Technical Committee on

Distributed Processing, 2003 - .
- Member of the ACM.
- Member of the American Society for Engineering Education (ASEE).

Federal Agencies [TOP]

- Chair of Large Scale Networking Coordination Committee, National Coordination Office for Networking and Information Technology Research and Development, 2005 - .
- Division Director of National Science Foundation.
- Panelist
  - National Science Foundation, USA, 1994, 2000 - 2003.
  - Site visitor for National Science Foundation, USA, 2001.
- Reviewer
  - National Science Foundation, USA, 1988, 1990, 1992 - 1996, 2000, 2002 - .
  - Hong Kong Research Grants Council (RGC), 1994-present.
  - IEEE Computer Society: Research Initiation Grants Program, U.S.A., 1992.
  - State of Louisiana Board of Regents, 1992.
  - Natural Sciences and Engineering Research Council, Canada, 1988.

Journals/Books [TOP]

- Member of the Editorial/Editorial Advisory Board
  - Editorial Board, IEEE Embedded Systems Letters (ESL), 2013 - .
  - Editorial Advisory Board, Wireless Network Security: Theories and Applications, 2010.

- Editor/Associate Editor
  - Frontiers of Computer Science in China (FCS), 2010 - 2012.
  - International Journal of Security and Networks (IJSN), 2005 - .
  - Journal called International Journal of High Performance Computing and Networking (IJHPCN) 2003 - .
  - Chinese Science Bulletin, China Academy of Science, 2003 - .
  - IEEE Transactions on Parallel and Distributed Computing Systems, 2001 - .
  - (Guest Editor) Special Issue on Security in Parallel and Distributed Computing Systems, IEEE Transactions on Parallel and Distributed Computing Systems, 2003.
  - International Journal on Foundations of E-Commerce, 2001 - .
  - Journal of Computer Science and Technology (JCST), 2000 - .
  - Journal of Real-Time Systems, 1997 - 2001.
  - IEEE Transactions on Computers (1992 - 1996).
  - Journal of Computer and Software Engineering, 1993 - .
  - (Guest Editor) Special Issue on Real-Time Operating Systems, ACM Operating System Review, 23 (3), July 1989.

- Referees
  - IEEE Transactions on Computers.
  - IEEE Transactions on Parallel and Distributed Computing.
  - IEEE Transactions on Software Engineering.
  - IEEE Computer.

- IEEE Software.
- IFAC Journal of Control Engineering Practice.
- International Journal of Computer Aided VLSI Design.
- International Journal of Computer and Telecommunications Networking.
- Journal of Parallel and Distributed Computing.
- International Journal of Real-Time Systems.
- Journal of Systems and Software.
- International Journal of Computer Systems Science and Engineering.

● Conferences [TOP]

- Chair of Program/Organization Committee
  - General Co-Chair, The 16th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications, August 2010.
  - Chair, NSF Symposium on Cyber-Enabled Discovery and Innovation, Sept 2007.
  - Publication Co-Chair, International Conference on Parallel Processing, August 2006.
  - Ex-Officio, IEEE Real-Time and Embedded Technology and Applications Symposium, April 2006.
  - Ex-Officio (TC-Chair), IEEE Real-Time Systems Symposium, December 2005.
  - General Co-Chair, International Conference on Embedded Software and Systems, December 2005.
  - General Co-Chair, Computer Innovation 6016, November 2005.
  - General Co-Chair, International Workshop on Resource Provisioning and Management in Sensor Networks, November 2005.
  - Co-Chair of Program Committee, International Conference on Computer Network and Mobile Computing, August 2005.
  - General Chair, International Workshop on Security in Distributed Computing Systems, June 2005.
  - Publication Co-Chair, IEEE International Conference on Distributed Computing Systems, June 2005.
  - General Co-Chair, IEEE 1st International Workshop on Networked Embedded Computing, 2004.
  - General Chair, International Workshop on Security in Parallel and Distributed Systems, September 2004.
  - Co-Chair of Program Committee, NSFC Workshop on Opportunities in Computer Science, 2003.
  - General Co-Chair, IEEE International Conference on Distributed Computing Systems, May 2003.
  - Coordinator of Roundtable Sessions in China-US Relations Conference, 2003.
  - Chair of Program Committee, Texas Workshop on Information Assurance and Security, 2003.
  - Financial Chair, IEEE Real-Time Systems Symposium, 2002 - 2004.
  - Co-Chair of Program Committee, IEEE International Conference on Distributed Computing Systems, April 2001.
  - Financial Chair, IEEE Real-Time and Embedded Technology and Applications Symposium, 2001 - 2005.
  - General Chair, IEEE Real-Time Systems Symposium, December 2000.

- Chair of Program Committee, IEEE Real-Time Systems Symposium, December 1999.
- Co-General Chair, IEEE Pacific Rim International Symposium on Fault-Tolerant Systems (PRFTS'99), December 1999.
- Co-Chair of International Liaison, IEEE International Conference on Distributed Computing Systems, May 1998.
- General Chair, IEEE Workshop on Middle-ware of Distributed Real-Time Services, December 1997.
- Co-Chair of Publication, IEEE Real-Time Systems Symposium, December 1996.
- General Chair, IEEE Symposium on Real-Time Technology and Applications, June 1996.
- Chair of Program Committee, IEEE Symposium on Real-Time Technology and Applications, May 1995.
- Chair of Publication, IEEE Real-Time Systems Symposium, December 1994.
- Vice-Chair of Program Committee, IEEE Int. Conference on Distributed Computing Systems, 94 & 95.
- Chair of Registration, IEEE International Workshop on Parallel and Distributed Real-Time Systems, 1994.
- Chair of Registration, IEEE International Workshop on Fuzzy Control and Intelligent Systems, 1993.
- Co-Chair of Program Committee, IEEE Workshop on Imprecise Computation and Communication, 1992.

- Member of Advisory/Steering Committee
  - IEEE/CIC International Conference on Communications in China (ICCC13), *The First ICCC International Workshop on Internet of Things (IOT 2013)*, 12-14 August 2013.
  - International Conference on High Performance Computing and Applications (HPCA), August 2004.
  - International Conference on Parallel and Distributed Computing and Systems, 1999 and 2001.
  - International Workshops on Parallel and Distributed Real-Time Systems, 1996, 2001-2005.

- Member of Program/Organization Committee
  - International Conference for Young Computer Scientists, November 2008.
  - International Conference on Algorithms and Architectures for Parallel Processing, June 2008.
  - International Workshops on Parallel and Distributed Real-Time Systems, April 2006.
  - International Workshop on Information Assurance in Distributed Systems, November 2005.
  - International Workshop on Embedded Computing, June 2005.
  - International Conference on Real-Time and Embedded Computing Systems and Applications Conference, August 2004.
  - International Conference on Parallel and Distributed Processing Techniques and Applications, June 2004.
  - IEEE Real-Time Technologies and Applications Symposium, 2004 - 2006.

- IEEE International Conference on Computer Networks and Mobile Computing (ICCNMC-2003), Shanghai , October 20-23, 2003..
- IEEE PRDC (Pacific Rim Dependable Computing) Conference, 2001 and 2002.
- ACM Workshop on Wireless Security, 2002.
- International Conferences on Web-Based Learning, 2002 - 2003.
- IEEE International Conference on Algorithms and Architecture for Parallel Processing (ICA3PP), 2000, and 2002.
- IEEE Second International Workshop on Advanced Issues of E-Commerce and Web-Based Information Systems, June 2000.
- IEEE Real-Time Technology and Applications Symposia, 1999 and 2000.
- International Conference on Parallel Processing (ICPP), 2000.
- IEEE Workshop on Parallel and Distributed Real-Time Systems, 2000.
- Euro-Micro ECRTS'00 Conference, 2000 and 2001.
- 7th International Workshop on Parallel and Distributed Real-Time Systems (WPDRTS), April 1999.
- 23rd and 24th IFAC/IFIP Workshops on Real Time Programming, 1998 and 1999.
- IEEE&ACM 2nd International Workshop on Active, Real-Time and Temporal Database Systems, September 1997.
- 8th International Database Workshop, July 1997.
- 1st Workshop on Real-Time Databases, March 1996.
- IEEE International Conferences on Computer Communications (INFOCOM), 1996 and 1997.
- ISCA International Conference on Parallel and Distributed Computing and Systems, 1994.
- IEEE Workshop on Real-Time Operating Systems and Software, 1991 & 1994.
- IEEE Workshop on the Role of Real-Time in Multimedia/Interactive Computing Systems, 1993.
- IEEE International Conference on Distributed Computing Systems, 1993 & 1996.
- 2nd International Conference on Computer Communications and Networks, 1993.
- Global Communication Conference, 1993.
- 1st International Workshop on Fuzzy Control and Intelligent Systems, 1991.
- IEEE Real-Time System Symposium, 1989 - 1992, 1995, 1997, 2001 - 2002.

- Session Chairman
  - AACP/TAMU Winter Conference, November 2000.
  - International Conference on Parallel Processing (ICPP), Sept 1999.
  - IEEE International Conference on Network Protocols, November 1995.
  - Workshop on the Role of Real-Time in Multimedia/Interactive Computing Systems, November 1993.
  - ISCA International Conference on Parallel and Distributed Computing and Systems, November 1993.
  - IEEE International Conference on Distributed Computing Systems, 1991, 1993, 2004.
  - Mission Safety Critical Systems Conference, October 1992.

- IEEE Real-Time Systems Symposium, 1988 and 1990,
- IEEE 4th Workshop on Real-Time Operating Systems, 1987.

- Panel Chair, Organizer, and Member
  - (Member) NSF International Conference on Wireless Algorithms, Systems, and Applications, 2007.
  - (Chairman) IEEE International Conference on Distributed Computing Systems, 2005
  - (Panelist) IEEE International Performance Computing and Communications Conference, April 2004
  - (Panelist) National Academy of Engineering Mini-Symposium, March 2001
  - (Panelist) IEEE Real-Time System Symposium, 1999
  - (Organizer) IEEE International Conference on Computer Communications (INFOCOM), March 1996.
  - (Chairman) IEEE Workshop Real-Time Operating Systems and Software, 1994.
  - (Chairman) IEEE Workshop on the Role of Real-Time in Multimedia/Interactive Computing Systems, 1993.
  - (Panelists) IEEE Computer Communications Workshop, 1995 and 1996.
  - (Panelist) 14th IEEE Real-Time Systems Symposium, December 1993,
  - (Panelist) 5th EUROMICRO Workshop on Real-Time Systems, June 1993.
  - (Panelist) IDA Workshop on Large, Distributed, Parallel Architecture Real-Time Systems, March 1993.
  - (Panelist) 1st ONR Workshop on Embedded Systems, January 1993.
  - (Panelist) Mission Safety Critical Systems Conference, October 1992.

- Tutorial
  - Real-Time Communications in ATM Networks, IEEE Real-Time Technology and Applications Symposium, June 1999.
  - Hard Real-Time Communications with Local Area Networks, Mission Safety Critical Systems Conference, October 1992.

- Referees
  - IEEE Real-Time Systems Symposium.
  - IEEE International Conferences on Distributed Computing Systems.
  - ACM and IEEE International Conference on Computer Architecture.
  - Australian Computer Science Conferences.
  - Australian Joint Artificial Intelligence Conferences.
  - Symposium on Formal Techniques in Real-Time and Fault-Tolerant Systems.
  - IEEE Symposium on Reliable Distributed Systems.
  - IEEE International Conference on Data Engineering.
  - Infocom: Joint IEEE Computer and IEEE Communications Societies Conference.

Adjunct Positions [TOP]

- Adjunct Research Fellow, United Nations University - International Institute for Software Technology, 01 April 2009 - 31 March 2016.

Ph.D. Examination [TOP]

- Chair of Ph.D. Oral Defense
  - Department of Mathematics, University of Macau, 2010 (Zhang Yingying).
  - Institute of Chinese Medical Sciences, University of Macau, 2009 (Hu Yuanjia).
- International Review Member/External Examiner
  - Dipartimento di Informatica, Universita' di Pisa, 1998.
  - Department of Computer Science, City University of Hong Kong, 2000 (Cheung Sau Kuen) and 2002 (Ming Li).

Invited Talks [TOP]

- Speaker & Panel Member, Science and Technology Panel entitled "Advancing the Core Competence of China", Harvard China Forum 16th Annual Conference, Boston, April 2013.
- Keynote Speaker, Distinguished Lecture Series, City University of Hong Kong, January 24, 2013.
- Secretary of Defense Highlands Forum Enrichment on Next Generation Networks, April 2006.
- Keynote Speaker, the 4th IEEE International Symposium on Network Computing and Applications, July 2005.
- Keynote Speaker, Annual Conference of Chinese Association of Science and Technology, USA, June 2005.
- Rensselaer Polytechnic Institute, 2005.
- Purdue University West Lafayette, Indiana, 2005.
- The University at Buffalo, The State University of New York, 2005.
- The Pennsylvania State University, 2005.
- National Science Foundation, 2004.
- Zhongsan University, 2004.
- Distinguished Speaker, The Ohio State University, 2004.
- Keynote Speaker, NSFC Conference on Computer Networks, February 2004.
- Keynote Speaker, Being Professors in the USA Forum, March 2003.
- Keynote Speaker, Sino-US Symposium on Hi-Tech and Economic Developments and the 4th Conference of FACPSU, May 2002.
- 8th Eighth Yangling Agricultural High-Tech Expo Opens, 2002.
- University of Massachusetts at Amherst, 2002.
- Harvard University, 2002.
- Institute of Computing Technology, 2001.
- Keynote Speaker, International Conference on Algorithms and Architectures for Parallel Processing, 2000.
- Nanjing University, 2000.
- Keynote Speaker, 10th International Conference on Parallel and Distributed Computing and Systems, October 1998.
- Keynote Speaker, 23rd IFAC/IFIP Workshop on Real Time Programming, June 1998.
- BBN, 1998.
- Shanghai Jiao Tong University, June 1997 and December 1999.
- Beijing University, June 1996.
- Hong Kong City University, May 1996.

- Invited Distinguished Speaker, International Conference on Computing Systems, October 1996.
- Mitre, October 1994 and October 2000.
- Navy High Performance Network Working Group Meeting, September 1994.
- Fudan University, July 1994.
- Keynote Speaker, IEEE International Workshop on Parallel and Distributed Real-Time Systems, April, 1994.
- Navy Safenet Working Group Meetings, July 1992 and March 1993.
- Texas A&M University, April 1993.
- Honeywell, 1993 and 1996.
- Concordia University, February 1992.
- Stanford University, March 1990.
- University of Michigan at Ann Arbor, March 1990.
- University of Rochester, March 1990.

China Related Activities [TOP]

- Member of Evaluation Committee, China Computer Federation (CCF) Award for Overseas Outstanding Contributions, 2015.
- Overseas Expert, The Chinese Academy of Sciences (CAS), 2014 - .
- Academician, China Science Center of International Eurasian Academy of Sciences (IEAS CHINA), November 2012 - .
- Vice Chairman of the Executive Council (Third Session), Institute of Digital China, Peking University, December 2010 - December 2015.
- Associate Editor-in-Chief, Frontiers of Computer Science in China (FCS), June 2010 - December 2012.
- Editorial Board Member, Frontiers of Computer Science in China (FCS), January 2010 - .
- Honorary Advisor, China Universities Directory (Zhongguo Daxue Zhinan 2010).
- Outstanding Alumnus, Shaanxi Normal University, October 2009.
- Honorary Chairman, Guangdong Alumni Association, Shaanxi Normal University, 2009 - .
- Advisor, Chinese Computer Federation, December 2008 -
- Co-Chair of Program Committee, Scientific Research Roundtables, US-China Relations Conference, November 2005.
- Chair of Program Committee, Joint NSF/US and NSF/China Forum on Information and Mathematical Sciences, 2004.
- Chair of Program Committee, NSFC Workshop on Opportunities in Computer Science, 2003.
- Advisor of Texas A&M China Club, 2002 - 2003.
- Keynote Speaker in NSFC Conference on Computer Networks, 2004.
- Coordinator of Roundtable Sessions in China-US Relations Conference, 2003.
- Chairman of Oversea Advisory Committee, COEI, Shanghai Jiaotong University, 2001 - .
- Co-Chairman of Dragon Star Executive Committee, 2002 - 2004.
- Honorable Dean, the School of Physics and Electronics, Shaanxi Normal University, 2002 - .

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