

# CURRICULUM VITAE

WEI ZHAO

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## Education

- 1986 Ph.D., 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).
- 1983 M.S., Department of Computer Science, University of Massachusetts at Amherst (M.S. Project: Improvement on Habermann's Algorithm for Deadlock Avoidance).
- 1977 B.S. (equivalent), Department of Physics, Shaanxi Normal University, Xi'an.

## Work Experience

- 2018 - present Chief Research Officer, American University of Sharjah.
- 2018 – present Professor of Computer Science, American University of Sharjah.
- 2008 - 2018 Rector, University of Macau.
- 2008 - 2018 Chair Professor of Computer Science, University of Macau.
- 2007 - 2008 Dean of Science, Rensselaer Polytechnic Institute.
- 2007 - 2008 Professor of Computer Science, Rensselaer Polytechnic Institute.
- 2005 - 2007 Division Director, CISE/CNS, National Science Foundation.
- 1997 – 2007 Department Head/Senior Associate Vice President for Research, Texas A&M University.
- 1997 - 1997 Full Professor of Computer Science, City University of Hong Kong.
- 1990 - 2007 Associate/Full Professor, Texas A&M University.
- 1988 - 1990 Senior Lecturer, University of Adelaide.
- 1986 - 1988 Assistant Professor, Amherst College.
- 1986 - 1986 Post-Doctoral Research Associate, University of Massachusetts at Amherst.
- 1982 - 1985 Teaching and Research Assistant/Associate, University of Massachusetts at Amherst.
- 1977 - 1982 Instructor, Shaanxi Normal University.

## Awards and Honors

- Achievement Award, IEEE Big Data Technical Committee, May 2019.
- Honorary Deanship, Shaanxi Normal University, 2017.
- Award for Overseas Outstanding Contributions, China Computer Federation, 2015.
- Listed in Top 100 Most Influential Academic Papers in China, 2012.
- Honorary Fellowship, Asian College of Knowledge Management, 2012.
- Honorary Fellowship, Canadian Chartered Institute of Business Administration, 2012.
- Listed in Who's Who in Asia 2012 (2<sup>nd</sup> edition).
- Listed in Marquis Who's Who, August 2011.
- Outstanding Technical Achievement and Leadership Award, IEEE Real-Time Systems Technical Committee, 2011.
- Outstanding Achievement Award in Education, Computer Science Department of the University of Massachusetts at Amherst, 2011.

- Honorary Professorship, Soochow University, 2009.
- Outstanding Alumni Award, Shaanxi Normal University, 2009.
- Honorary Professorship, University of Science and Technology of China, 2009.
- Best Paper Award, IEEE International Conference on Communications, 2008.
- Overseas Achievement Award, China Computer Federation, October 2007.
- Best Student Paper Award, IEEE Real-Time Systems Symposium, 2007.
- Achievement Award, IEEE Distributed Computing Technical Committee, 2006.
- Life Achievements Award, Chinese Association of Science and Technology, June 2005.
- Award on Spirit of Technology Transfer, DARPA, January 2002.
- IEEE Fellow, since January 1, 2001.
- Listed in International Man of the Millennium, International Biographical Center, 1999.
- Listed in Who's Who in Science and Engineering (4<sup>th</sup> edition), Marquis Who's who, 1998.
- Best Student Paper Award, IEEE National Aerospace and Electronics Conference, 1998.
- Listed in Twentieth Century Distinguished Who's Who, 1996.
- Listed in Asia's Who's Who of Men and Women of Achievement, Vol. IX, 1996.
- 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**

- Universidade de Aveiro
- Universidade Técnica de Lisboa
- Universidade Nova de Lisboa
- Universidade do 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

### **Keynote and Invited Speeches**

- ACM China Turing Conference, May 2019.
- Keynote Speaker, Annual Meeting of IEEE Big Data Technical Committee, May 2019.
- Keynote Speaker, 7th International Conference on Computational Data and Social Networks, December 2018.
- Keynote Speaker, 6th International Conference on Advanced Cloud and Big Data, August 2018.
- Keynote Speaker, International Conference on Data Science, June 2018.

- Keynote Speaker, NSF Workshop on International Networks to Advance CPS Research, Development, and Education, CPS Week, April 2018.
- Keynote Speaker, KAUST Research Conference on Computational and Statistical Interface to Big Data, March 2018.
- Keynote Speaker, 2nd International Conference on Smart Computing and Communications, December 2017.
- Keynote Speaker, 36<sup>th</sup> IEEE International Symposium on Reliable Distributed Systems, September 2017.
- Keynote Speaker, 10th EAI International Conference on Mobile Multimedia Communications, July 2017.
- Keynote Speaker, 12th International Conference on Wireless, Algorithms, Systems, and Applications, June 2017.
- Keynote Speaker, ACM/IEEE International Conference on Internet-of-Things Design and Implementation, CPS Week, April 2017.
- Keynote Speaker, IEEE Conference on Computer Communications (INFOCOM), April 2015.
- Keynote Speaker, IEEE/ACM International Symposium on Quality of Service, May 2014.
- Rotary Club of Macau, January 2014.
- Keynote Speaker, IEEE International Conference on Pervasive Computing and Communications, 2014.
- 16<sup>th</sup> Harvard China Forum, April 2013.
- Distinguished Lecturer, City University of Hong Kong, January 2013.
- Keynote Speaker, 6th Beijing International Education Expo, June 2009.
- Keynote Speaker, 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.
- Secretary of Defense Highlands Forum Enrichment on Next Generation Networks, April 2006.
- Keynote Speaker, 4th IEEE International Symposium on Network Computing and Applications, July 2005.
- Keynote Speaker, Annual Conference of Chinese Association of Science and Technology, June 2005.
- Purdue University West Lafayette, Indiana, 2005.
- The University at Buffalo, The State University of New York, 2005.
- The Pennsylvania State University, 2005.
- Keynote Speaker, NSFC Conference on Computer Networks, February 2004.
- Distinguished Speaker, the Ohio State University, 2004.
- National Science Foundation, 2004.
- Zhongshan University, 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.
- Distinguished Speaker, International Conference on Computing Systems, October 1996.
- 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.
- Texas A&M University, April 1993.
- Honeywell, 1993 and 1996.
- Navy Safenet Working Group Meetings, July 1992 and March 1993.
- Concordia University, February 1992.
- Stanford University, March 1990.
- University of Michigan at Ann Arbor, March 1990.
- University of Rochester, March 1990.

### **Inventions**

- 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, 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)**

- 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.
- Theoretical Foundation and Design Methodology of IoT, Ministry of Science and Technology, P.I.: Wei Zhao, 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. Zheng, 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.I.s.: 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)

Books/DVDs:	4
Book Chapters:	19
Refereed Journals:	146
Refereed Conferences:	209
Others:	39
<hr/> TOTAL:	417

## Publications (Books/DVDs)

2011

4. Ming Li and Wei Zhao, Analysis of Min-Plus Algebra, 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), Embedded Software and Systems, Lecture Notes in Computer Science, vol. 3820, DOI: 10.1007/11599555, 2005.

2. X. Lu and Wei Zhao (co-editors), Networking and Mobile Computing, 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 (Book Chapters)**

### 2013

19. Wei Zhao, A Progressive Model of University Governance, in University Governance, edited by Daren Huang, pp 92-99, 2013.

### 2009

18. Chengzhi Li and Wei Zhao, Queueing Delay Analysis of Multi-Radio Multi-Channel Wireless Mesh Networks, 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 22, pp. 515-538, 2009.

### 2008

17. Ming Li, X. Gu, and Wei Zhao, Experimental Analysis of Pattern Similarity Between Bessel Lernel and Born-Jordan Kernel, Electrical and Computer Engineering Series, A Series of Reference Books and Textbooks, 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, Long-Range Dependent Network Traffic: 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)**

### 2019

146. Y Zhang, QY Yang, W Yu, D An, DH Li, Wei Zhao, An Online Continuous Progressive Second Price Auction for Electric Vehicle Charging. IEEE Internet of Things Journal, 6, 2, doi: 10.1109/JIOT.2018.2876422, April 2019.

145. XL Zhang, DM Li, WW Li, Wei Zhao, An Optimal Dynamic Admission Control Policy and Upper Bound Analysis in Wireless Sensor Networks. IEEE Access, 7, 53314-53329, DOI: 10.1109/ACCESS.2019.2912396, 2019.

144. Lin Cui Lin, FP Tso, S Guo, W Jia, K Wei, Wei Zhao, Enabling Heterogeneous Network Function Chaining. IEEE Transactions on Parallel and Distributed Systems, 30 (4), 842-854, doi: 10.1109/TPDS.2018.2871845, April 2019.

143. Y Zhang, Q Yang, W Yu, D An, D Li, Wei Zhao, An Online Continuous Progressive Second Price Auction for Electric Vehicle Charging. IEEE Internet of Things Journal, April 2019.

### 2018

142. XC Sun, M Li, Wei Zhao, Moderate Deviations for Stochastic Fractional Heat Equation Driven by Fractional Noise. Complexity, doi: 10.1155/2018/7402764, 2018.

141. W Jia, H Peng, N Ruan, Z Tang, Wei Zhao, WiFind: Driver fatigue detection with fine-grained Wi-Fi signal features. IEEE Transactions on Big Data, 2018.

140. D An, Q Yang, W Yu, X Yang, X Fu, Wei Zhao, SODA: Strategy-Proof Online Double Auction Scheme for Multimicrogrids Bidding. IEEE Transactions on Systems, Man, and Cybernetics: Systems 48 (7), 1177-1190, 2018.

139. F Liang, W Yu, D An, Q Yang, X Fu, Wei Zhao, A Survey on Big Data Market: Pricing, Trading and Protection, IEEE Access 6, 15132-15154, doi: 10.1109/ACCESS.2018.2806881, 2018.

138. Z Tang, X Zhou, F Zhang, W Jia, Wei Zhao, Migration Modeling and Learning Algorithms for Containers in Fog Computing. *IEEE Transactions on Services Computing*, 2018.

## 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. 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.

134. 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.

133. Lin Cui, Weijia Jia, Dimitrios P. Pazaros, 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.

132. 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.

131. 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.

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

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## 2016

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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**

- Zhibin Mai, Schlumberger.
- Wei Yu, Towson University.
- Nan Zhang, American University at DC.
- 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, Fujitsu.
- Anirudh Sahoo, India Institute of Technology.
- Steven Swanson, Astronaut, NASA.
- Dong Xuan, Ohio State University.
- Jianjia Wu, Texas A&M University.
- Lijun Yao, Australia Telecom.

### **University Services**

- 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**

#### Professional Societies

- Member of IEEE CS Fellows Evaluation Committee, 2015 and 2019.
- 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

- 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

- 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 - .
  - 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.
- Referee
  - IEEE Transactions on Computers.
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- 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

- 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.
- Referee
    - 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

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

### Ph.D. Examination

- 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, Università di Pisa, 1998.
- Department of Computer Science, City University of Hong Kong, 2000 (Cheung Sau Kuen) and 2002 (Ming Li).