

CURRICULUM VITAE

Shengquan Wang, Ph.D.

September 2012

Associate Professor
Department of Computer and Information Science
The University of Michigan-Dearborn
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1. EDUCATION

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| Ph.D. – Computer Science
Texas A&M University, College Station, TX, USA
Advisor: Dr. Wei Zhao | December 2006 |
| M.S. – Mathematics
Texas A&M University, College Station, TX, USA | May 2000 |
| M.S. – Applied Mathematics
Shanghai Jiao Tong University, China | April 1998 |
| B.S. – Mathematics
Anhui Normal University, China | July 1995 |

2. TEACHING AND RESEARCH INTERESTS

- **Operating Systems and Real-Time Systems**
- **Computer Networks and Distributed Systems**
- **Sustainable Computing** (Power, Energy, Thermal, and Reliability Issues)
- **Security and Privacy**
- **Optimization**

3. APPOINTMENTS

Associate Professor Department of Computer and Information Science The University of Michigan-Dearborn, Dearborn, MI, USA	September 2012 – Present
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Assistant Professor Department of Computer and Information Science The University of Michigan-Dearborn, Dearborn, MI, USA	September 2006 – August 2012
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Teaching/Research Assistant
Department of Computer Science
Texas A&M University, College Station, TX

June 2000 – August 2006

Teaching Assistant
Department of Mathematics
Texas A&M University, College Station, TX

September 1998 – May 2000

Software Engineer
Huawei Technologies Inc., China

April 1998 – July 1998

Teaching Assistant
Department of Mathematics
Shanghai Jiao Tong University, China

September 1995 – April 1998

4. HONORS AND AWARDS

- **NSF CAREER Award**, 2008 – 2013.
Highlight: It is the 2nd NSF CAREER award in the history of the University of Michigan-Dearborn.
- **Rackham Faculty Research Grant**, University of Michigan, Ann Arbor, 2007.
- **Best Paper Award**, Euromicro Conf. on Real-Time Systems (ECRTS), 2006.
- **AUF Graduate Scholarship**, Texas A&M University, 2004 and 2005.
- **Student Travel Awards**, IEEE Int'l Conf. on Computer Communications (INFOCOM), 2001, IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS), 2005, and ACM Int'l Conf. on Knowledge Discovery and Data Mining (SIGKDD), 2005.
- **Excellent Undergraduate Scholarship**, Anhui Normal University, 1992 – 1995.

5. SCIENTIFIC AND PROFESSIONAL SOCIETIES MEMBERSHIP

- Member of **IEEE** since 2006
- Member of **ACM** since 2006

6. TEACHING ACTIVITIES

6.1. Chronology of Teaching Assignments

Term	Course Number	Course Title	Cr. Hrs	Num. of Students
Fall'06	CIS 450/ECE 478/IMSE 450	Operating Systems	4	27
Winter'07	CIS 450/ECE 478/IMSE 450	Operating Systems	4	22
Fall'07	CIS 450/ECE 478/IMSE 450	Operating Systems	4	17
	CIS 527	Computer Networks	3	8

Winter'08	CIS 450/ECE 478/IMSE 450	Operating Systems	4	31
	CIS 125	Survey of Computer Science	3	6
	CIS 695	Master Project	3	1
Fall'08	CIS 450/ECE 478/IMSE 450	Operating Systems	4	18
	CIS 578/ECE 578	Advanced Operating Systems	3	10
Winter'09	CIS 450/ECE 478/IMSE 450	Operating Systems	4	21
	CIS 437/CIS 537	Advanced Networking	3	7
	CIS 695	Master Project	3	1
Summer'09	CIS 591	Directed Research Project	3	1
	CIS 695	Master Project	3	1
Fall'09	CIS 450/ECE 478/IMSE 450	Operating Systems	4	28
	CIS 427/IMSE 453	Computer Network and Distributed Processing	4	19
Winter'10	CIS 450/ECE 478/IMSE 450	Operating Systems	4	21
	CIS 427/IMSE 453	Computer Network and Distributed Processing	4	40
Fall'10	CIS 450/ECE 478/IMSE 450	Operating Systems	4	22
	CIS 427/IMSE 453	Computer Network and Distributed Processing	4	22
Winter'11	CIS 450/ECE 478/IMSE 450	Operating Systems	4	33
	CIS 427/IMSE 453	Computer Network and Distributed Processing	4	30
Fall'11	CIS 450/ECE 478/IMSE 450	Operating Systems	4	32
	CIS 647	Advances in Networking and Distributed Systems Research	3	2
	CIS 493	Independent Study I	1	1
	ISE 990 001	Doctoral Dissertation	6	1
Winter'12	CIS 450/ECE 478/IMSE 450	Operating Systems	4	42
	CIS 200	Computer Science II	4	30
Overall			102	494

6.2. Curriculum Development

- Revised Course (CIS 450/ECE 478/IMSE 450 - Operating Systems): I significantly revised the part on hand-on experience. In particular, I developed four machine problems on Android Kernel. With these machine problems, the students have a better understanding of a real operating system kernel and know how to apply theory into implementation.
- Revised Course (CIS 437/CIS 537 - Advanced Networking): I significantly revised the content by including the frontier research in computer networks including overlay networking, vehicular networking, and network coding. It provides the students with the exposure to the state-of-the-art of computer networks.

- Revised Course (CIS 427/IMSE 453 - Computer Networks): I significantly revised the content by adopting a new textbook “Computer Networking: A Top-Down Approach Featuring the Internet” by Kurose & Rose. The top-down approach really helps motivate students to study the network design in an incremental way.
- New Degree Program (B.S. in Digital Forensics): I have been involved in Digital Forensics new degree program development since 2006.
- New Degree Program (Ph.D. in Information Systems Engineering): I have been involved in Information Systems Engineering new degree program development since 2006.
- Curriculum Revision and Evaluation: As part of the ABET ad-hoc committee since 2006, I have regularly and actively been involved in curriculum evaluation and revision in the department.
- Laboratory Development: I established the “Research Laboratory for Sustainable Systems (RLSS)” sponsored by NSF CAREER grant. Currently, two graduate students are involved in research projects within the lab.

6.3. Student/Post-doc Supervision

Post-doctors supervised

- Zhen-Jun Shi, September 2008 – May 2009.

Ph.D. students supervised

- Jun Liu, Ph.D. student (sponsored by my grant), September 2009 – January 2012.

Note: University of Michigan-Dearborn started the Ph.D. program from Fall 2009.

M.S. students supervised

- Nan Wang, Master student (sponsored by my grant), September 2010 – Present.
- Fayed Abed, Master student, “Design, Code and Implement a LPR/LPD-Compatible Daemon,” April 2009. Currently at Ford.
- Robert P. Karaban, Master student, “Viability of Microsoft Peer-to-Peer Framework for Collaborative Emergency Management Systems,” April 2008. Currently at New World Systems.

Graduate student’s thesis committees

- Shen Xu, “Bayesian Network Structure Learning and its Applications,” September 2009.
- Remya Joseph, “Dynamic Transmission Power Control Protocol in Vehicular Ad Hoc Networks,” April 2009.
- Dinesh Thandapani, “Solution to Security Vulnerabilities in IPv6,” October 2008.
- Shang-Yeu Chang, “Sybil Attacks on Vehicular Ad-Hoc Networks,” April 2007.

Under-graduate students advising

- Academic advisor of several undergraduate students every year.

7. RESEARCH ACTIVITIES

7.1. Publications: Please access the pdf files of selected publications via <http://umd.umich.edu/~shqwang/sp.html>

Book Chapters

1. Z. Mai, **S. Wang**, D. Xuan, and W. Zhao, "Delay Performance and Management of VoIP System," in *VoIP Handbook: Applications, Technologies, Reliability, and Security*, Syed Ahson, Mohammad Ilyas (Eds.), CRC Press, 2009.
2. **S. Wang**, R. Nathuji, R. Bettati, and W. Zhao, "Real-Time Guarantees in Wireless Networks," in *Resource Management in Wireless Networking*, Mihaela Cardei, Ionut Cardei, and Ding-Zhu Du (Eds.), Kluwer Academic Publishers, 2005.

Refereed Journal Publications

3. **S. Wang**, J. Liu, X. Liu, and J. Chen, "PowerSleep: A Smart Power-Saving Scheme with Sleep for Servers under Response Time Constraint," in *IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS)*, Vol. 1, No. 3, pp. 289-298, September 2011.
4. M. Ahmed, N.W. Fisher, **S. Wang**, and P. Hettiarachchi, "Minimizing Peak Temperature in Embedded Real-Time Systems via Thermal-Aware Periodic Resources," in *Sustainable Computing: Informatics and Systems (SCIS)*, Vol. 1, No. 13, pp. 226-240, September 2011.
5. N.W. Fisher, J. Chen, **S. Wang**, and L. Thiele, "Thermal-Aware Global Real-Time Scheduling and Analysis on Multicore Systems," in *Journal of Systems Architecture (JSA)*, Vol. 57, No. 5, pp. 547-560, May 2011.
6. Z. Shi and **S. Wang**, "Modified Nonmonotone Armijo Line Search For Descent Method," in *Numerical Algorithms (NA)*, Vol. 57, No. 1, pp. 1-25, May 2011.
7. Z. Shi and **S. Wang**, "Nonmonotone Goldstein Line Search Method," to appear in *International Journal of Computer Mathematics (IJCM)*.
8. Z. Shi and **S. Wang**, "Nonmonotone Adaptive Trust Region Method," in *European Journal of Operational Research (EJOR)*, Vol. 208, No. 1, pp. 28-36, January 2011.
9. Z. Shi, **S. Wang**, and Z. Xu, "The Convergence of Conjugate Gradient Method with Nonmonotone Line Search," in *Applied Mathematics and Computation (AMC)*, Vol. 217, No. 5, pp. 1921-1932, November 2010.
10. **S. Wang**, Y. Ahn, and R. Bettati, "Schedulability Analysis in Hard Real-Time Systems under Thermal Constraints," in *Real-Time Systems Journal (RTSJ)*, Vol. 46, No. 2, pp. 160-188, October 2010.
11. **S. Wang**, D. Xuan, R. Bettati, and W. Zhao, "Toward Statistical QoS Guarantees in a Differentiated Services Network," in *Telecommunication Systems (TS)*, Vol. 43, No. 3, pp. 253-263, April 2010.
12. **S. Wang** and R. Bettati, "Reactive Speed Control in Temperature-Constrained Real-Time Systems," in *Real-Time Systems Journal (RTSJ)*, Vol. 39, No. 1-3, pp. 73-95, August 2008.
13. J. Guo, W. Xiang, and **S. Wang**, "Reinforce Networking Theory with OPNET Simulation," in *Journal of Information Technology Education (JITE)*, Vol. 6, pp. 215-226, 2007.
14. **S. Wang**, Z. Mai, D. Xuan, and W. Zhao, "Design and Implementation of QoS-Provisioning System for Voice over IP," in *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 17, No. 3, pp. 276-288, March 2006.

15. **S. Wang**, D. Xuan, and W. Zhao, "Analyzing and Enhancing the Resilience of Structured Peer-to-Peer Systems," in *Journal of Parallel and Distributed Computing (JPDC)*, Vol. 65, No. 2, pp. 207-219, February 2005.
16. **S. Wang**, D. Xuan, R. Bettati, and W. Zhao, "Providing Absolute Differentiated Services for Real-Time Applications in Static-Priority Scheduling Networks," in *IEEE/ACM Transactions on Networking (TON)*, Vol. 12, No. 2, pp. 326-339, April 2004.

Refereed Conference Publications

1. X. Chen, X. Liu, **S. Wang**, and X. Chang, "TailCon: Power-Minimizing Tail Percentile Control of Response Time in Server Clusters," to appear in *Proc. International Symposium on Reliable Distributed Systems (SRDS)*, October 2012.
2. **S. Wang**, W. Munawar, J. Liu, J. Chen, and X. Liu, "Power-Saving Design for Server Farms with Response Time Percentile Guarantees," to appear in *Proc. IEEE Real-Time Technology and Applications Symposium (RTAS)*, April 2012.
3. **S. Wang**, J. Chen, J. Liu, and X. Liu, "Power Saving Design for Servers under Response Time Constraint," in *Proc. Euromicro Conference on Real-Time Systems (ECRTS)*, July 2010. (Acceptance Rate: **24%**)
4. **S. Wang** and J. Chen, "Thermal-Aware Lifetime Reliability in Multicore Systems," in *Proc. IEEE International Symposium on Quality Electronic Design (ISQED)*, March 2010. (Acceptance Rate: **31%**)
5. **S. Wang**, J. Chen, Z. Shi, and L. Thiele, "Energy-Efficient Speed Scheduling for Real-Time Tasks under Thermal Constraints," in *Proc. IEEE Embedded and Real-Time Computing Systems and Applications (RTCSA)*, August 2009. (Acceptance Rate: **31%**)
6. J. Chen, **S. Wang**, and L. Thiele, "Proactive Speed Scheduling for Real-Time Tasks under Thermal Constraints," in *Proc. IEEE Real-Time Technology and Applications Symposium (RTAS)*, April 2009. (Acceptance Rate: **25%**)
7. N.W. Fisher, J. Chen, **S. Wang**, and L. Thiele, "Thermal-Aware Global Real-Time Scheduling on Multicore Systems," in *Proc. IEEE Real-Time Technology and Applications Symposium (RTAS)*, April 2009. (Acceptance Rate: **25%**)
8. J. Guo, J.P. Baugh, and **S. Wang**, "A Group Signature Based Secure and Privacy-Preserving Vehicular Communication Framework," in *Proc. IEEE Mobile Networking for Vehicular Environments (MOVE) workshop* in conjunction with IEEE INFOCOM, May 2007.
9. **S. Wang** and R. Bettati, "Delay Analysis in Temperature-Constrained Hard Real-Time Systems with General Task Arrivals," in *Proc. IEEE Real-Time Systems Symposium (RTSS)*, December 2006. (Acceptance Rate: **24%**)
10. M. Li, **S. Wang**, and W. Zhao, "A Real-Time and Reliable Approach to Detecting Traffic Variations at Abnormally High and Low Rates," in *Proc. International Conference on Autonomic and Trusted Computing (ATC)*, September 2006. (Acceptance Rate: **24%**)
11. **S. Wang** and R. Bettati, "Reactive Speed Control in Temperature-Constrained Real-Time Systems," **Best Paper Award**, in *Proc. Euromicro Conference on Real-Time Systems (ECRTS)*, July 2006. (Acceptance Rate: **24%**)
12. N. Zhang, **S. Wang**, and W. Zhao, "On A New Scheme on Privacy Preserving Data Classification," in *Proc. ACM International Conference on Knowledge Discovery and Data Mining (SIGKDD)*, August 2005. (Acceptance Rate: **12%**)

13. **S. Wang**, S. Rho, Z. Mai, R. Bettati, and W. Zhao, "Real-Time Component-based Systems," in *Proc. IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)*, March 2005. (Acceptance Rate: **33%**)
14. **S. Wang**, S. Rho, R. Bettati, and W. Zhao, "Toward Real-Time Component-based Systems," in *Proc. IEEE International Real-time Systems Symposium (RTSS) Work-In-Progress Session*, December 2004.
15. N. Zhang, **S. Wang**, and W. Zhao, "A New Scheme on Privacy Preserving Association Rule Mining," in *Proc. European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD)*, September 2004. (Acceptance Rate: **15%**)
16. **S. Wang**, R. Nathuji, R. Bettati, and W. Zhao, "Providing Statistical Delay Guarantees in Wireless Networks," in *Proc. IEEE International Conference on Distributed Computing Systems (ICDCS)*, March 2004. (Acceptance Rate: **18%**)
17. D. Xuan, S. Chellappan, X. Wang, and **S. Wang**, "Analyzing the Secure Overlay Services Architecture under Intelligent DDoS Attacks," in *Proc. IEEE International Conference on Distributed Computing Systems (ICDCS)*, March 2004. (Acceptance Rate: **18%**)
18. **S. Wang**, D. Xuan, and W. Zhao, "On Resilience of Structured Peer-to-Peer Systems," in *Proc. IEEE Global Communications Conference (GLOBECOM)*, December 2003. (Acceptance Rate: **30%**)
19. **S. Wang**, D. Xuan, R. Bettati, and W. Zhao, "A Study of Providing Statistical QoS Guarantees in Differentiated Services Networks," in *Proc. IEEE International Symposium on Network Computing and Applications (NCA)*, April 2003. (Acceptance Rate: **26%**)
20. **S. Wang** and D. Xuan, "A Markov-Chain Based Analytical Approach to Resilience of Structured P2P Systems," in *the poster session of IEEE International Conference on Distributed Computing Systems (ICDCS)*, May 2003.
21. Z. Mai, **S. Wang**, D. Xuan, and W. Zhao, "Group Aggregation for Scalable Anycast Routing," in *Proc. IEEE International Performance Computing and Communications Conference (IPCCC)*, April 2003. (Acceptance Rate: **36%**)
22. **S. Wang**, Z. Mai, W. Magnussen, D. Xuan, and W. Zhao, "Implementation of QoS-Provisioning System for Voice over IP," in *Proc. IEEE Real-Time Technology and Applications Symposium (RTAS)*, December 2002. (Acceptance Rate: **30%**)
23. **S. Wang**, D. Xuan, R. Bettati, and W. Zhao, "Differentiated Services with Statistical Real-Time Guarantees in Static-Priority Scheduling Networks," in *Proc. IEEE Real-Time Systems Symposium (RTSS)*, December 2001. (Acceptance Rate: **21%**)
24. **S. Wang**, D. Xuan, R. Bettati, and W. Zhao, "Providing Absolute Differentiated Services with Statistical Guarantees in Static-Priority Scheduling Networks," in *Proc. IEEE Real-Time Technology and Applications Symposium (RTAS)*, May 2001. (Acceptance Rate: **31%**)
25. **S. Wang**, D. Xuan, R. Bettati, and W. Zhao, "Providing Absolute Differentiated Services for Real-Time Applications in Static-Priority Scheduling Networks," in *Proc. IEEE International Conference on Computer Communications (INFOCOM)*, April 2001. (Acceptance Rate: **23%**)

Papers under Review or Revision or Preparation

26. **S. Wang**, J. Chen, M. Ahmed, and N.W. Fisher, "Dynamic Thermal Management with Core-Activation Control for Real-Time Tasks on Multi-Core Systems," conference paper.
27. **S. Wang**, J. Liu, X. Liu, and J. Chen, "Power-Saving Design in Server Farms for Multi-Tier Applications under Response Time Constraint," conference paper.

28. N. Wang, **S. Wang**, M. Ahmed, and N.W. Fisher, "Reliability-Aware Periodic Resource Management for Real Time Applications," conference paper.
29. N. Wang and **S. Wang**, "Battery-Aware Optimization for Periodic Tasks," conference paper.
30. J. Liu, **S. Wang**, and J. Chen, "Power-Saving for Periodic Tasks on Real-Time Multicore Systems with Voltage Islands," conference paper.
31. G. Tu, J. Cao, Y. Han, **S. Wang**, and Wei Zhao, "Handling Schemes of Asynchronous Delays in Multi-channel Communication for Wide Area Control," conference paper.

7.2. Research Grants

Awarded External Research Grants

- **NSF CAREER Award**, sole PI, "CAREER: Timing-Aware Dynamic Thermal Management in High-Performance Embedded Systems," \$400,000, NSF CNS 0746906, 2008 – 2013.
- **Rackham Faculty Research Grant**, sole PI, \$15,000, University of Michigan, Ann Arbor, 2007.

Declined External Research Grants

- **Microsoft Power Aware Computing**, sole PI, "Thermal-Aware High-Performance Embedded Computing with Timing Guarantees," \$107,822, 09/01/2008 – 08/31/2009.
- **US Department of Transportation**, Federal Highway Administration (FHWA), co-PI (with PI: Jinhua Guo and co-PI: Xiangyang Li), "Secure and Privacy-Preserving Vehicular Communication Framework," \$436,930, 10/01/2007 – 09/30/2010.
- **National Science Foundation**, co-PI (with PI: Jinhua Guo), "NeTS-WN: Increasing Broadcast Reliability and Routing Efficiency in Vehicular Ad-hoc Networks," \$178,090, 08/01/2007 – 07/31/2009.
- **National Science Foundation**, PI (with PI: Riccardo Bettati at Texas A&M University), "CSR-EHS: Collaborative Research: Thermal-Aware Real-Time Computing," \$301,387, 09/01/2007 – 08/31/2010.
- **National Science Foundation**, PI (with PI: Dong Xuan at the Ohio-State University), "CRI:IAD: Collaborative Research: An Integrated Wireless and Wired Network Test-bed for Research and Education on Real-Time Communications Computing," \$81,590, 09/01/2007 – 08/31/2009.
- **National Science Foundation**, PI (with PI: Nathan Fisher at Wayne State University), "CSR:Small:Collaborative Research: Mitigating Wear-Out for Real-Time Chip Multiprocessor Systems," \$249,995, 07/01/2011 – 06/30/2014.
- **National Science Foundation**, PI (with PI: Nathan Fisher at Wayne State University), "CSR:Small:Collaborative Research: Enhancing Lifetime Reliability for Real-Time Chip Multiprocessor Systems," \$249,951, 07/01/2012 – 06/30/2015.

Awarded Internal Research Grants

- GSRA Funding by HP-CEEP at University of Michigan-Dearborn, ~\$21,000, 09/01/2010 – 08/31/2011.
- GSRA Funding by College of Engineering and Computer Science at the University of Michigan-Dearborn, ~\$31,000, 09/01/2009 – 08/31/2011.

Declined Internal Research Grants

- University of Michigan-Dearborn Faculty Initiative Grant, sole PI, “Thermal-Aware Real-Time Computing,” \$6,000, 2007 – 2008.

7.3. Research Collaborations

Domestic Universities

- Texas A&M University
- Wayne State University
- University of Nebraska-Lincoln
- Ohio State University
- Central State University

International Universities

- Karlsruhe Institute of Technology (KIT) in Germany
- Swiss Federal Institute of Technology (ETH) Zurich in Switzerland
- McGill University in Canada
- University of Macau in China
- East China Normal University in China

8. SERVICE ACTIVITIES

8.1. University Service

University Committees

- New Program Development Committee (B.S. in Digital Forensics), September 2006 – Present.

College Committees

- New Program Development Committee (Ph.D. in Information Systems Engineering), September 2006 – Present.

Departmental Committees

- Faculty Recruiting Committees, 2008, 2010, 2011.
- ABET ad-hoc Committee (Coordinating ABET course material for CIS 450).
- Academic Advising ad-hoc Committee (Academic advisor of several undergraduate students every year).

8.2. Professional Activities

Editor Board

- International Journal of Information Science and Computer Application (IJISCA), 2011.

Technical Program Committees

- ACM International Workshop on Mission-Oriented Wireless Sensor Networking (MiSeNet), 2012.
- IEEE International Conference on Embedded Software and Systems (ICESS), 2012.
- IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA), 2012.
- The Workshop on Cyber-Physical Networking Systems (CPNS), 2012.
- International Conference on Computer Communication Networks (ICCCN), 2012.
- International Conference on Mobile, Ubiquitous, and Intelligent Computing (MUSIC), 2012.
- IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS), 2012.
- IEEE International Symposium on Advanced Topics on Embedded Systems and Applications (ESA), 2011.
- IEEE International Conference on Embedded Software and Systems (ICESS), 2005, 2009-2011.
- International Conference on Computer Science and its Applications (CSA), 2009, 2011, 2012.
- International Conference on Embedded and Multimedia Computing (EMC), 2010-2011.
- International Workshop on Cyber-Physical Networking Systems (CPNS), 2011.
- IEEE International Green Computing Conference (IGCC), 2011.
- ACM Symposium on Applied Computing (SAC), 2009, 2011.
- International Conference on Pervasive Intelligence and Computing (PICom), 2009.
- IEEE Real-Time Systems Symposium (RTSS) Work-in-Progress Session, 2009.
- IEEE International Conference on Embedded Computing (EmbeddedCom), 2009.
- International Workshop on Cyber-Physical Systems (WCPS), 2008-2009.
- International Conference on Wireless Access in Vehicular Environments (WAVE), 2008.
- IEEE Real-Time Systems Symposium (RTSS), 2008.
- Mini-track on Cyber Physical Systems affiliated with Hawai'I International Conference on System Sciences (HICSS), 2008.
- IEEE International Symposium on Ubiquitous Computing and Intelligence (UCI), 2007.
- International Conference on Advance Information Networking and Applications (AINA), 2006.

Organizing Committees

- Publicity chair, IEEE International Workshop on Wireless Mesh and Ad Hoc Networks (WiMAN), 2012.
- Publicity chair, IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS), 2007.
- Conference web-master, IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS), 2002, 2006.
- Conference web-master, International Conference on Computer Network and Mobile Computing (ICCNMC), 2005.
- Conference web-master, IEEE International Conference on Distributed Computing Systems (ICDCS), 2001, 2008.

Panelists

- National Science Foundation (NSF), 2008, 2010.

Invited Talks

- **S. Wang**, "Power Management in Servers," HP, October 2009.
- **S. Wang**, "Timing-Aware Dynamic Thermal Management in High-Performance Computing Systems," Department of Computer Science and Engineering, Oakland University, November 2008.
- **S. Wang**, "Providing Delay Guarantees in Large-Scale Networking and Distributed Systems," NEC Labs America, July 2006.
- **S. Wang**, "Providing Delay Guarantees in Large-Scale Networking and Distributed Systems," Department of Computer and Information Science, University of Michigan-Dearborn, February 2006.
- **S. Wang**, "Utilization-Based Delay Guarantee Techniques and their Applications," Department of Electrical Engineering and Computer Science, Vanderbilt University, March 2005.

Participation in Grant-Related Workshops

- Faculty Proposal Development Workshop, University of Michigan-Dearborn, October 2009.
- National Workshop on High-Confidence Automotive Cyber-Physical Systems, Troy, Michigan, April 3-4, 2008.
- Composable and Systems Technology for High Confidence Cyber-Physical Systems Workshop, Arlington, Virginia, July 9-10, 2007.
- Grant Writing Workshop, Texas A&M University, August 2004.

Reviewers for Journals

- IEEE Transactions on Parallel and Distributed Systems
- IEEE Transactions on Computers
- IEEE Transactions on Wireless Communications
- IEEE Transactions on Systems, Man and Cybernetics

- IEEE Transactions on Control Systems Technology
- IEEE Transactions on Knowledge and Data Engineering
- IEEE Transactions on Industrial Informatics
- Journal of Systems Architecture
- Journal of Computer Communications
- Journal of Systems and Software
- Journal of Network and Computer Applications
- EURASIP Journal on Wireless Communications and Networking
- EURASIP Journal on Embedded Systems
- JETR Journal of Engineering and Technology Research
- Parallel and Distributed Computing and Networks
- International Journal of Computers and Applications
- Elsevier Computer Communications
- SCIENCE CHINA Information Sciences
- Journal of Zhejiang University-SCIENCE A

Reviewers for Conferences

- IEEE International Symposium on Advanced Topics on Embedded Systems and Applications (ESA), 2011.
- IEEE International Conference on Embedded Software and Systems (ICCESS), 2005, 2009-2011.
- International Conference on Computer Science and its Applications (CSA), 2009, 2011.
- International Conference on Embedded and Multimedia Computing (EMC), 2010-2011.
- International Workshop on Cyber-Physical Networking Systems (CPNS), 2011.
- IEEE International Green Computing Conference (IGCC), 2011.
- ACM Symposium on Applied Computing (SAC), 2009, 2011.
- International Conference on Pervasive Intelligence and Computing (PICom), 2009.
- IEEE Real-Time Systems Symposium (RTSS) Work-in-Progress Session, 2009.
- IEEE International Conference on Embedded Computing (EmbeddedCom), 2009.
- International Workshop on Cyber-Physical Systems (WCPS), 2008-2009.
- International Conference on Wireless Access in Vehicular Environments (WAVE), 2008.
- IEEE Real-Time Systems Symposium (RTSS), 2008.
- Mini-track on Cyber Physical Systems affiliated with Hawai'i International Conference on System Sciences (HICSS), 2008.
- IEEE International Symposium on Ubiquitous Computing and Intelligence (UCI), 2007.

- International Conference on Advance Information Networking and Applications (AINA), 2006.