

Satyajayant Misra

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EDUCATION

Doctor of Philosophy (8/2003 - 8/2009)

Department of Computer Science and Engineering
Ira A. Fulton School of Engineering
Arizona State University (ASU)

Major: Computer Science

Thesis: SAS: Security, Anonymity, and Survivability in Wireless Sensor and Ad Hoc Networks

Integrated Master of Science (9/1998 - 6/2003)

Department of Computer Science and Information Systems
Department of Physics
Birla Institute of Technology and Science (BITS), Pilani
Majors: Information Systems and Physics

QUALIFICATION SUMMARY

My research interests are in networking and mobile computing, with emphasis on,

- ▷ Social Networks and Their Complex Interactions with Communication Networks.
- ▷ Anonymous and Private Communication in Wireless Sensor and Ad Hoc Networks.
- ▷ Design and Development of Low-Cost and Customizable Wireless Sensors for aiding experimental research.
- ▷ Design of protocols and applications for leveraging the information-centric paradigm for the Internet and the Smart grid.
- ▷ Design of protocols and algorithms for improving network performance in high performance computing environments.

I have co-authored more than **45** refereed papers in the above areas. The relevance of my research can be gauged from the cumulative peer-citation count of over **1138** (highest citation of an individual article is 262, with 16 publications cited at least 10 times each) in nine years. Several of my works have been published in prestigious peer reviewed journals and conferences, such as *IEEE Transactions on Wireless Communications*'2011 and '2014, *IEEE Transactions on Computers*'2014, *IEEE/ACM Transactions on Networking*'2010 and '2013, *IEEE Transactions on Mobile Computing*'2012, *IEEE Communications on Surveys and Tutorials*'2008 and '2012, *IEEE Transactions on Intelligent Transportation Systems*'2011, *IEEE Transactions on Vehicular Technology*'2009, *IEEE/ACM SuperComputing*'2012, *IEEE MASS*'2011, *IEEE SECON*'2010, *Computer Networks*'2008, *IEEE INFOCOM*'2009, *IEEE INFOCOM*'2008, and *IEEE INFOCOM*'2007.

AWARDS and HONORS

- ▷ One of the first eleven NSF CREATIV grant awardees for year 2012.
- ▷ Chosen by the Los Alamos National Lab (LANL) from among faculty at NMSU to be part of the New Mexico Consortium research group for supercomputing.
- ▷ Awarded NSF Fellowship to attend the TRUST-WISE workshop at UC Berkeley, summer 2006.

- ▷ Awarded student leadership award by the Computer Science and Engineering department in 2004.
- ▷ Participant of the group that won the third prize in the city of Phoenix Downtown Shade Modeling contest, September 2007.
- ▷ Student Travel Grant Award for GLOBECOM 2007, MILCOM 2007, MILCOM 2006, ICC 2006.
- ▷ Awarded fellowship under the Young Science Fellowship Program by Indian Institute of Science (IISc) Bangalore, for academic years 1999-2001.
- ▷ Best academic performance award by the Physics Department (BITS, Pilani) for exceptional performance in M.Sc (Hons) Physics, class of 2003.
- ▷ Ranked 6th in the M.Sc. (Tech) Information Systems class of 2003, graduating with distinction.

RESEARCH EXPERIENCES

Assistant Professor (08/2009 - Present), Dept. of Computer Science, NMSU

Working on wireless ad hoc and sensor networks, exascale supercomputing architecture, and future Internet architectures. Addressing issues in security, privacy, and efficient operation in these networks.

Research Associate (01/2005 - 07/2009), Dept. of Computer Science and Engineering, ASU

I designed, implemented, and evaluated anonymous protocols for wireless sensor networks, secure localization and target tracking protocols that withstand malicious anchors, relay nodes placement algorithms for wireless sensor networks, and anonymous/secure authentication protocols for vehicular ad hoc networks and RFID systems. **Past**

Projects (Involved as a Researcher):

- ▷ Security and Survivability of Real-time Systems with MANETs, sponsored by NSF.
- ▷ Robustness and Survivability Issues in Wireless Ad Hoc Networks, sponsored by ARO.
- ▷ Numerical and Combinatorial Algorithms for Location Problems arising in Wireless Sensor Networks and Other Applications, sponsored by NSF.
- ▷ Cross-layer Optimization for Dynamic Spectrum Access Wireless Mesh Networks, sponsored by NSF.

Research Intern (1/2003 - 6/2003), Veritas Software Inc., India

I worked on an individual product named the “Veritas Configuration File Synchronizer,” which was to form a part of the Veritas Cluster Server. I designed and implemented the first prototype of the product.

Research Assistant (7/2002 - 12/2002), Department of Computer Science and Information Systems, BITS Pilani, India

Completed M.S. thesis titled, “Internet Quality of Service with Incomplete Information.” Modeled various parameters to obtain a relationship between the parameters and delay over the Internet. Proposed an efficient algorithm to find a path in the Internet given several QoS constraints.

Project Leader and Research Assistant (7/2001 - 7/2002), Department of Computer Science and Information Systems, BITS Pilani, India

Led the *Desktop Videoconferencing* subgroup of the IPv6@BITS group. Contributed to the design and development of a complete desktop videoconferencing toolkit.

TEACHING, ADVISING, and MENTORING EXPERIENCES

Assistant Professor (8/2009 - Present), Dept. of Computer Science, New Mexico State University

I have taught courses in Computer Networks, Computer Security, and Operating Systems, and mentored graduate and undergraduate students for their thesis and projects. I have mentored **four** undergraduate students for their undergraduate thesis. I have graduated **five** M.S. students. I am currently advising **two** Ph.D. students (one of

them will complete her Ph.D. this Spring semester) and **five** M.S. students. As part of the research projects effort I am mentoring another three students (one Ph.D. in Biology and two M.S. in Electrical Engineering).

Teaching Associate (TA) (9/2003 - 5/2005), Dept. of Computer Science and Engineering, ASU

I worked as a teaching associate for the courses Programming with C++ (CSE 100) (taught labs), Data Structures using Java (CSE 210) (taught labs), Design and Analysis of Algorithms (CSE 450/598), and Convex Optimization with Engineering Applications (CSE 591).

Student Mentor (01/2007 - 5/2008), Research Experience for Undergraduate (REU) Program, NSF

I have supervised three undergraduate students as their student mentor.

FUNDING EFFORTS

- ▷ Awarded an NSF CREST grant – *iCREDITS: interdisciplinary Center of Research Excellence in Design of Intelligent Technologies for Smart grids*, Co-PI, total amount \$5,000,000 (Co-PI leads one of the projects with a budget of \$750,000), funding period 2/01/2014 – 1/31/2019.
- ▷ Awarded Los Alamos National Security/Department of Energy (LANS/DOE) grant – *One-sided Communication State of the Art Study with MPI-1/MPI-2, UCCS, and OpenSHMEM*, Single PI, amount \$80,000, funding period 12/01/2013 – 11/30/2015.
- ▷ Awarded NSF INSPIRE grant – *CREATIV: Towards Ubiquitous Adoption of Wireless Sensor Networks in Experimental Biology Research*, Lead PI, total amount \$832,000 (PI's budget is \$432,000), funding period 08/01/2012 – 07/31/2018.
- ▷ Awarded DoEd GAANN grant – *Training Graduate Students for Research and Teaching Careers in Computer Science*, Co-PI, amount \$395,775, funding period 08/01/2012 – 07/31/2015.
- ▷ Awarded one month summer support for summer of 2011 to perform preliminary collaborative research in supercomputing with the Los Alamos National Lab (LANL) (funded by the New Mexico Consortium (NMC)).

PUBLICATIONS (with citations count updated May 24, 2014)

NOTE: * next to the name indicates student author

Refereed Journal Papers

- [1] H. Huang, **S. Misra**, W. Tang, H. Barani* and H. Al-Azzawi*, “Applications of Compressed Sensing in Communications Networks,” *arXiv preprint arXiv:1305.3002*, 2013. (Citations: 1)
- [2] Y. Hao*, H. Cao, C. Hu*, K. Bhattacharai*, **S. Misra**, “K-anonymity for Social Networks Containing Rich Structural and Textual Information,” *Springer Social network analysis and mining journal (accepted)*.
- [3] H. Huang, Y. Jaradet*, **S. Misra** and R. Tourani*, “Towards Achieving Linear Capacity Scaling in Wireless Networks through Directed Energy,” accepted for publication in *IEEE Transactions on Wireless Communications (TWC)*.
- [4] **S. Misra**, N. Majd*, H. Huang, “Practical Approximation Algorithms for Constrained Relay Node Placement in Energy Harvesting Wireless Sensor Networks,” *IEEE Transactions on Computers (ToC)*, 2014 (pre-publication).
- [5] D. Yang*, G. Xue, X. Fang*, and **S. Misra**, J. Zhang*, “A Game Theoretic Approach to Stable Routing in Max-Min Fair Networks,” *IEEE Transactions on Networking (TON)*, vol. 21, no. 6, pp. 1947–1959, December, 2013. (Citations: 1)

- [6] A. Abu-Baker*, H. Huang and **S. Misra**, “Maximizing lifetime sequences of wireless sensor networks powered by renewable energy,” accepted for publication in *Sensor Review Journal*.
- [7] X. Fang*, **S. Misra**, G. Xue and D. Yang*, “Managing Smart Grid Information in the Cloud: Opportunities, Model, and Applications,” *IEEE Networks Magazine*, vol. 26, no. 4, pp. 32–38, 2012. (Citations: 12)
- [8] M. Balakrishnan, H. Huang, R. Asorey-Cacheda, **S. Misra**, S. Pawar*, and Y. Jaradat*, “Null Frequency Jamming of Routing Protocols in Wireless Ad Hoc Networks,” *IEEE Transactions on Wireless Communications (TWC)*, vol. 11, no. 11, pp. 3860–3868, 2012.
- [9] X. Fang*, **S. Misra**, D. Yang* and G. Xue, “Smart Grid – The New and Improved Power Grid: A Survey,” *IEEE Communications on Surveys and Tutorials (CST)*, vol. 14, no. 4, pp. 944–980, 2012. (Citations: 262)
- [10] D. Yang*, **S. Misra**, X. Fang*, G. Xue and J. Zhang, “Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Computational Complexity and Efficient Approximations,” *IEEE Transactions on Mobile Computing (TMC)*, vol. 11, no. 8, pp. 1399–1411, 2012. (Citations: 25)
- [11] D. Huang, **S. Misra**, G. Xue and M. Verma*, “PACP: An efficient pseudonymous authentication based conditional privacy protocol for VANETs,” *IEEE Transactions on Intelligent Transportation Systems (T-ITS)*, vol. 12, no. 3, pp. 734–746, 2011. (Citations: 22)
- [12] **S. Misra**, S. Hong, G. Xue and J. Tang, “Constrained relay node placement in wireless sensor networks: Formulation and approximations,” *IEEE Transactions on Networking (TON)*, vol. 18, no. 2, pages 434–448, 2010. (Citations: 62)
- [13] **S. Misra**, G. Xue and S. Bhardwaj, “Secure and robust localization in a wireless ad hoc environment,” *IEEE Transactions on Vehicular Technology (TVT)*, vol. 58, no. 3, pages 1480–1489, 2009. (Citations: 28)
- [14] J. Tang, **S. Misra** and G. Xue, “Joint spectrum allocation and scheduling for fair spectrum sharing in cognitive radio wireless networks,” *Journal of Computer Networks (ComNet)*, vol. 52, no. 11, pages 2148–2158, 2008. (Citations: 88)
- [15] **S. Misra**, M. Reisslein and G. Xue, “Multimedia streaming in wireless sensor networks,” *IEEE Communications Surveys and Tutorials (CST)*, vol. 10, no. 4, pages 18–39, 2008. (Citations: 248)
- [16] **S. Misra** and G. Xue, “Efficient anonymity schemes for clustered wireless sensor networks,” *International Journal of Sensor Networks (IJSNet)*, vol. 1, no. 1/2, 2006. (Citations: 52)

Refereed Conference & Workshop Papers

- [16] N. Majd*, **S. Misra**, and R. Tourani*, “Split-Cache: A Holistic Caching Framework for Improved Network Performance in Wireless Ad Hoc Networks,” *IEEE GLOBECOM Conference (accepted)*, 2014.
- [17] H. Al-Azzawi*, H. Huang, **S. Misra** and W. Tang, “On Using Compressed Sensing for Efficient Transmission & Storage of Electric Organ Discharge,” *IEEE International Symposium on Circuits and Systems (ISCAS)*, 2014.
- [18] M. Harris*, E. Salazar*, R. Güth*, V. Nawathe*, M. Sharifi*, W. Tang and **S. Misra**, “Wireless Sensing Framework for Long-Term Measurements of Electric Organ Discharge,” *IEEE Biomedical Circuits and Systems Conference (BioCAS)*, 2013. (Citations: 1)
- [19] **S. Misra**, R. Tourani*, N. Majd*, “Secure Content Delivery in Information-Centric Networks: Design, Implementation, and Analyses,” *The 3rd ACM SIGCOMM Workshop on Information-Centric Networking (ICN)*, 2013. (Acceptance rate: 20%) (Citations: 1)

- [20] Y. Hao*, H. Cao, K. Bhattacharai* and **S. Misra**, “STK-anonymity: k-anonymity of social networks containing both structural and textual information,” *Proceedings of the ACM SIGMOD Workshop on Databases and Social Networks*, pp. 19–24, 2013.
- [21] J. Lafon*, **S. Misra**, and J. Brinhurst, “On Distributed File Tree Walk of Parallel File Systems,” accepted to *IEEE/ACM International Conference for High Performance Computing, Networking, Storage and Analysis (SuperComputing)*, 2012. (Citations: 1)
- [22] **S. Misra**, N. Majd*, and H. Huang, “Constrained Relay Node Placement in Energy Harvesting Wireless Sensor Networks,” *IEEE International Conference on Mobile Ad Hoc and Sensor Systems (IEEE MASS)*, pages 25–34, 2011. (Citations: 8)
- [23] M. Balakrishnan, H. Huang, **S. Misra**, R. Asorey-Cacheda, S. Pawar*, and Y. Jaradat*, “Null Frequency Jamming of Dynamic Routing in Wireless Ad Hoc Networks,” accepted to the *IEEE International Global Communications Conference (IEEE GLOBECOM)*, 2011.
- [24] **S. Misra**, K. Bhattacharai* and G. Xue, “BAMBi: Blackhole Attacks Mitigation with Multiple Base Stations in Wireless Sensor Networks,” *IEEE International Conference on Communications (ICC)*, 2011. (Citations: 10)
- [25] S. Myneni*, **S. Misra** and G. Xue, “SAMA: Serverless Anonymous Mutual Authentication for Low-Cost RFID Tags,” *IEEE International Conference on Communications (ICC)*, 2011. (Citations: 3)
- [26] A. Abu-Baker*, H. Huang, E. Johnson and **S. Misra**, “Green Diffusion: Data Dissemination in Sensor Networks Using Solar Power,” *IEEE Consumer Communication and Networking Conference*, 2010. (Citations: 5)
- [27] D. Yang*, G. Xue, X. Fang*, **S. Misra** and J. Zhang*, “Routing in Max-Min Fair Networks: A Game Theoretic Approach,” *IEEE International Conference on Network Protocols (ICNP)*, 2010 (**First runner-up for the best paper award**; Acceptance Rate: 18%). (Citations: 6)
- [28] A. Abu-Baker*, H. Huang, E. Johnson, **S. Misra**, R. Asorey-Cacheda, and M. Balakrishnan, “Maximizing Alpha-Lifetime of Sensor Networks with Solar Energy Sources,” *IEEE MILCOM*, 2010. (Citations: 1)
- [29] **S. Misra** and S. Myneni*, “On Identifying Power Control Performing Sybil Nodes in Wireless Sensor Networks Using RSSI,” *IEEE GLOBECOM*, 2010. (Citations: 2)
- [30] D. Yang*, X. Fang*, G. Xue, **S. Misra** and A. Irani*, “Simple and Effective Scheduling in Wireless Networks under the Physical Interference Model,” *IEEE GLOBECOM*, 2010. (Citations: 1)
- [31] D. Yang, **S. Misra**, X. Fang, G. Xue and J. Zhang, “Two-Tiered Constrained Relay Node Placement in Wireless Sensor Networks: Efficient Approximations,” *IEEE International Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON)*, 2010. (Citations: 19)
- [32] D. Yang, **S. Misra** and G. Xue, “Joint Base Station Placement and Fault-Tolerant Routing in Wireless Sensor Networks,” *IEEE Global Communications Conference (GLOBECOM)*, 2009. (Citations: 3)
- [33] **S. Misra**, G. Xue and D. Yang, “Polynomial time approximations for multi-path routing with bandwidth and delay constraints,” *IEEE Conference on Computer Communications (INFOCOM)*, 2009 (Acceptance Rate: 282/1435). (Citations: 26)
- [34] **S. Misra**, M. Verma, D. Huang and G. Xue, “SEAS: A secure and efficient anonymity scheme for low-cost RFID tags,” *IEEE International Conference on Communications (ICC)*, 2009. (Citations: 4)

- [35] **S. Misra**, S. Hong, G. Xue and J. Tang, “Constrained relay node placement in wireless sensor networks to meet connectivity and survivability requirements,” *IEEE Conference on Computer Communications (INFOCOM)*, 2008, pp. 879–887 (Acceptance Rate: 236/1160). (Citations: 88)
- [36] W. Zhang, G. Xue and **S. Misra**, “Fault-tolerant relay node placement in wireless sensor networks: Problems and algorithms,” *IEEE Conference on Computer Communications (INFOCOM)*, 2007, pp. 1649–1657 (Acceptance Rate: 252/1400). (Citations: 116)
- [37] **S. Misra**, G. Xue and A. Shrivastava, “Robust localization in wireless sensor networks through the revocation of malicious anchors,” *IEEE International Conference on Communications (ICC)*, 2007, pp. 3057–3062. (Citations: 7)
- [38] **S. Misra** and G. Xue, “CluRoL: Clustering based robust localization in wireless sensor networks,” *IEEE Military Communications Conference (MILCOM)*, 2007. (Citations: 4)
- [39] **S. Misra**, W. Zhang and G. Xue, “A Technique to enhance localization in the presence of NLOS errors,” *IEEE Global Communications Conference (GLOBECOM)*, 2007, pp. 1070–1075. (Citations: 2)
- [40] J. Tang, **S. Misra** and G. Xue, “Spectrum allocation and scheduling in dynamic spectrum access wireless networks,” *International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine)*, 2007, pp. 2148–2158. (Citations: 3)
- [41] **S. Misra**, S. Bhardwaj and G. Xue, “ROSETTA: Robust and secure target tracking in a wireless ad hoc environment,” *IEEE Military Communication Conference (MILCOM)*, 2006 (Acceptance Rate: 25%). (Citations: 12)
- [42] **S. Misra** and G. Xue, “SAS: A simple anonymity scheme for clustered wireless sensor networks,” *IEEE International Conference on Communications (ICC)*, 2006, pp. 3414–3419. (Citations: 10)
- [43] M. Bhardwaj, **S. Misra** and G. Xue, “Distributed topology control in wireless ad hoc networks using β -skeleton,” *IEEE Workshop on High Performance Switching and Routing (HPSR)*, 2005, pp. 371–375. (Citations: 5)

Other Publications

- [43] R. G uth*, M. Harris*, E. Salazar*, V. Nawathe*, M. Sharifi*, W. Tang, **S. Misra** and G. Unguez, “Temperature-induced effects on the discharge and phenotype of *Eigenmannia virescens* electric organ,” poster presentation in *Society of Integrative and Comparative Biology (SICB)*, 2014.
- [44] H. Al-Azzawi*, H. Huang, **S. Misra** and W. Tang, “On Using Compressed Sensing for Reducing Transmission and Storage Requirements for Experimental Data,” poster presentation in annual meeting of *American Society in Cellular Biology (ASCB)*, December 2013.
- [45] X. Fang*, **S. Misra**, G. Xue and D. Yang*, “How Smart Devices, Online Social Networks and the Cloud Will Affect the Smart Grid’s Evolution,” *IEEE Smart Grid Newsletter*, January, 2013.

CONFERENCE AND COLLOQUIA PRESENTATIONS

- ▷ Temperature Effects on the Electric Discharge and Gene Expression in the Electric Organ of *Eigenmannia virescens*, Society for Integrative and Comparative Biology, Annual Meeting, Austin, TX, January, 2014.
- ▷ Wireless Sensing Framework for Long-Term Measurements of Electric Organ Discharge in Electric Fish, American Society for Cellular Biology, Annual Meeting, New Orleans, LA, December, 2013.
- ▷ On Using Compressed Sensing for Reducing Transmission and Storage Requirements for Experimental Data,

American Society for Cellular Biology, Annual Meeting, New Orleans, LA, December, 2013.

- ▷ Wireless Sensing Framework for Long-Term Measurements of Electric Organ Discharge, IEEE Biomedical Circuits and Systems Conference (IEEE BioCAS), Rotterdam, Netherlands, November 2013.
- ▷ Secure Content Delivery in Information-Centric Networks: Design, Implementation, and Analyses, ACM SIGCOMM Information-Centric Networking (ICN) Workshop, Chinese University of Science and Technology, Hong Kong, July, 2013.
- ▷ Constrained Relay Node Placement For Connectivity and Survivability in Wireless Sensor Networks, CS Department, University of New Mexico, Albuquerque, NM, September, 2011.
- ▷ Constrained Relay Node Placement in Energy Harvesting Wireless Sensor Networks, 8th IEEE International Conference on Mobile Ad Hoc and Sensor Systems (IEEE MASS), 2011, Valencia, Spain.
- ▷ SAMA: Serverless Anonymous Mutual Authentication for Low-Cost RFID Tags, presented in IEEE ICC 2011, Kyoto, Japan.
- ▷ BAMBi: Blackhole attacks mitigation with multiple base stations in wireless sensor networks, presented in IEEE ICC 2011, Kyoto, Japan.
- ▷ On Identifying Power Control Performing Sybil Nodes in Wireless Sensor Networks Using RSSI, presented in IEEE GLOBECOM 2010, Miami, Florida.
- ▷ Constrained relay node placement in wireless sensor networks to meet connectivity and survivability requirements, IEEE INFOCOM 2008, Phoenix, Arizona.
- ▷ CluRoL: Clustering based robust localization in wireless sensor networks, IEEE MILCOM 2007, Orlando, Florida.
- ▷ A Technique to Enhance Localization in the Presence of NLOS Errors, IEEE GLOBECOM 2007, Washington D.C.
- ▷ ROSETTA: Robust and Secure Target Tracking in a wireless ad hoc environment, IEEE MILCOM 2006, Washington D.C.

PROFESSIONAL SERVICES

Research Proposal Adjudication:

- ▷ Invited to serve as panelist on **ten** National Science Foundation (NSF) panels till date.

Consulting:

- ▷ Subject Matter Expert (SME) for the Arrowhead Center at NMSU in four projects.

Editorial Board:

- ▷ Serving on the editorial board of the IEEE Wireless Communications Magazine (2010 – onwards).
- ▷ Served on the editorial board of the IEEE Communications on Surveys and Tutorials journal (2009-2013).

Executive Committee of Conferences:

- ▷ Serving as the Demo Chair for ACM MobiHoc Conference 2015.
- ▷ Serving as the Track Chair for International Conference on Wireless Communications and Signal Processing (WCSP), 2014.
- ▷ Serving as the Publication Chair for IEEE/ACM International Symposium on Quality of Service (IWQoS), 2014.
- ▷ Serving as the Publication Chair for IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), 2014.
- ▷ Served as the TPC Vice Chair for Information Systems (EDAS) for IEEE Conference on Computer Communications (INFOCOM), 2012.
- ▷ Publicity Chair for IEEE International Sensor Ad Hoc and Mesh Networking Conference (SECON), 2011.
- ▷ IEEE International Performance Computing and Communications Conference (IPCCC), 2010.

Session Chair:

- ▷ IEEE GLOBECOM 2010, Ad Hoc and Sensor Networks Symposium: Session on Energy Saving and Power Control Protocols I.
- ▷ IEEE GLOBECOM 2009, Ad Hoc and Sensor Networks Symposium: Session on Routing Protocols in Wireless Sensor Networks.
- ▷ Invited to chair Session 4b: Security, at IEEE MASS 2011.

Technical Program Committee Member (Partial List):

- ▷ IEEE INFOCOM 2010 – .
- ▷ IEEE ICC 2009 – .
- ▷ IEEE WCNC 2010 – .
- ▷ IEEE GLOBECOM 2010 – .
- ▷ IEEE IWCMC 2010 – .
- ▷ IEEE ICCVE 2012-2013.
- ▷ IEEE ICNC 2012 – .
- ▷ IEEE INFOCOM Machine to Machine (M2M) Communication Workshop 2011.
- ▷ IEEE IPCCC 2010 – .
- ▷ IEEE INFOCOM 2010, Student Workshop.
- ▷ ChinaCom 2008.
- ▷ IEEE GLOBECOM'2006, Wireless Ad Hoc, Sensor and Mesh Networking Symposium.

Reviewer (Partial List):

- ▷ IEEE/ACM Transactions on Mobile Computing.
- ▷ IEEE/ACM Transactions on Parallel and Distributed Systems.
- ▷ IEEE/ACM Transactions on Networking.
- ▷ IEEE Transactions on Wireless Communication.
- ▷ IEEE Transactions on Vehicular Technology.
- ▷ IEEE Communications on Surveys and Tutorials.
- ▷ Elsevier Computer Networks.
- ▷ Elsevier Journal on Performance Evaluation.
- ▷ IEEE International Conference on Communications (ICC) – 2006, 2008–2013.
- ▷ IEEE International Global Communications Conference (GLOBECOM) – 2006, 2009–2013.
- ▷ IEEE Conference on Sensor and Ad Hoc Communications and Networks (SECON'2007).
- ▷ IEEE Mobile Ad Hoc and Sensor Systems (MASS'2006).
- ▷ IEEE International Conference on Computer Communications and Networks (ICCCN'2006).

Other Services:

- ▷ Lead and organized the graduate student volunteers in INFOCOM 2008, Phoenix, AZ.
- ▷ Student volunteer at IEEE Performance Computing and Communications Conference (IPCCC'2005).
- ▷ Student volunteer at IEEE Workshop on High Performance Switching and Routing (HPSR'2004).