

## Parth H. Pathak

Assistant Professor  
Computer Science Department  
George Mason University  
Fairfax, VA 22030

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### RESEARCH INTERESTS

**Wireless and mobile computing:** high-speed wireless and mobile networks, MIMO and beamforming systems, multi-gigabit wireless communications, Internet-of-Things, RF and mmWave sensing, mobile and wearable sensing, ubiquitous computing, cyber-physical systems

### EDUCATION

- **Ph.D. in Computer Science** (2012)  
North Carolina State University, Raleigh, NC, USA  
Advisor: Rudra Dutta  
Thesis: Designing for Network and Service Continuity in Wireless Networks
- **M.S. in Computer Science** (2010, En Route to Ph.D.)  
North Carolina State University, Raleigh, NC, USA  
Advisor: Rudra Dutta
- **B.E. in Information Technology** (2005)  
Gujarat University (L.D. College of Engineering), Gujarat, India.

### PROFESSIONAL EXPERIENCE AND EMPLOYMENT

- **Assistant Professor** (Aug '16 - Present)  
Computer Science Department, George Mason University, Fairfax, VA, USA
- **Postdoctoral Research Fellow** (Aug. '12 - July '16)  
Computer Science Department, University of California, Davis, CA, USA  
Mentor: Prasant Mohapatra
- **Research Assistant** (Aug. '08 - July '12)  
Computer Science Department, North Carolina State University, Raleigh, NC, USA
- **Software Intern** (May '08 - Aug. '08)  
Cisco Systems Inc., Wireless Network Business Unit, San Jose, CA, USA
- **Research Intern** (May '06 - Dec. '06)  
Qualcomm Flarion Research Center, Bedminster, NJ, USA

### PUBLICATIONS

**Total citations: 1409, H-index: 15, i-10 index: 18**

\* indicates students currently advising at GMU, † indicates students advised at UC Davis as a postdoc

#### BOOKS

1. Parth H. Pathak and Rudra Dutta, "Designing for Network and Service Continuity in Wireless Mesh Networks", *Springer Science and Business Media*, 2012.

#### JOURNALS (PEER-REVIEWED)

1. Pengfei Hu<sup>†</sup>, Parth H. Pathak, Huanle Zhang, Zhicheng Yang<sup>†</sup>, and Prasant Mohapatra, "High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation", *IEEE Transactions on Mobile Computing (TMC)*, 2019. [Impact Factor = 4.1]
2. Zhicheng Yang<sup>†</sup>, Parth H. Pathak, Yunze Zeng<sup>†</sup>, Xixi Liran and Prasant Mohapatra, "A Vital Sign and Sleep Monitoring Using Millimeter Wave", *ACM Transactions on Sensor Networks (TOSN)*, Vol-

ume 13 Issue 2, June 2017. [Impact Factor = 2.6]

3. Aveek K. Das<sup>†</sup>, Parth H. Pathak, Chen-Nee Chuah, Prasant Mohapatra, "Privacy-aware Contextual Localization using Network Traffic Analysis", *Elsevier Computer Networks*, Volume 118, May 2017. [Impact Factor = 2.5]
4. Yunze Zeng<sup>†</sup>, Parth H. Pathak, Prasant Mohapatra, "Throughput, energy efficiency and interference characterisation of 802.11ac", *Transactions on Emerging Telecommunications Technologies (ETT)*, Volume 28, Jan 2017. [Impact Factor = 1.6]
5. Parth H. Pathak, Xiaotao Feng, Pengfei Hu<sup>†</sup> and Prasant Mohapatra, "Visible Light Communication, Networking and Sensing: A Survey, Potential and Challenges", *IEEE Communications Surveys and Tutorials (COMSOC-CST)*, 2015.
6. Arun Raghuramu<sup>†</sup>, Parth H. Pathak, Hui Zang, Jinyoung Han, Chang Liu, Chen-Nee Chuah, "Uncovering the footprints of malicious traffic in wireless/mobile networks", *Elsevier Computer Communications (ComCom)*, Volume 95, Dec. 2016. [Impact Factor: 3.3]
7. Aveek K. Das<sup>†</sup>, Parth H. Pathak, Chen-Nee Chuah, and Prasant Mohapatra, "Characterization of Wireless Multidevice Users", *ACM Transactions on Internet Technology (TOIT)*, Vol. 16, Dec. 2016. [Impact Factor = 2.0]
8. Parth H. Pathak, Xiaotao Feng, Pengfei Hu<sup>†</sup> and Prasant Mohapatra, "Visible Light Communication, Networking and Sensing: A Survey, Potential and Challenges", *IEEE Communications Surveys and Tutorials (COMSOC-CST)*, Vol. 17, Sept. 2015. [Impact Factor = 17.1]
9. Parth H. Pathak, Rudra Dutta and Prasant Mohapatra, "On Availability-Performability Trade-off in Wireless Mesh Networks", *IEEE Transactions on Mobile Computing (TMC)*, Vol. 14, Jun 2014. [Impact Factor = 3.8]
10. Kefeng Tan, Shraboni Jana, Parth H. Pathak and Prasant Mohapatra, "On Insider Misbehavior Detection in Cognitive Radio Networks", *IEEE Network Magazine, Special Issue on Security in Cognitive Radio Networks (Network)*, Vol. 27, May 2013. [Impact Factor = 7.1]
11. Parth H. Pathak and Rudra Dutta, "Centrality-based Power Control for Hot-spot Mitigation in Multi-hop Wireless Networks", *Elsevier Computer Communications (COMCOM)*, Vol. 35, May 2012. [Impact Factor: 3.3]
12. Parth H. Pathak and Rudra Dutta, "A Survey of Network Design Problems and Joint Design Approaches in Wireless Mesh Networks", *IEEE Communications Surveys and Tutorials (COMSOC-CST)*, Vol. 13, June 2011. [Impact Factor = 17.1]

#### CONFERENCES AND WORKSHOPS (REFEREED)

1. Zhicheng Yang<sup>†</sup>, Parth Pathak, Mo Sha, Tingting Zhu, Junai Gan, Pengfei Hu<sup>†</sup>, Prasant Mohapatra, "On Feasibility of Estimating Soluble Sugar Content using Millimeter-wave", *ACM/IEEE Conference on Internet of Things Design and Implementation (IoTDI)*, Montreal, Canada, April, 2019. [Acceptance Rate = 35%]
2. Ding Zhang<sup>\*</sup>, Mihir Garude<sup>\*</sup> and Parth H. Pathak, "mmChoir: Exploiting Joint Transmissions for Reliable 60GHz mmWave WLANs", *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, Los Angeles, USA, June 2018. [Acceptance Rate = 17%]
3. Zhicheng Yang<sup>†</sup>, Parth H. Pathak, Jianli Pan, Mo Sha and Prasant Mohapatra, "Sense and Deploy: Blockage-aware Deployment of Reliable 60 GHz mmWave WLANs", *IEEE International Conference on Mobile, Ad-hoc and Sensor Systems (MASS)*, Chengdu, China, Oct. 2018. [Acceptance Rate = unavailable, last 10 years average = 26%]
4. Aveek K. Das<sup>†</sup>, Parth H. Pathak, Josiah Jee<sup>†</sup>, Chen-Nee Chuah and Prasant Mohapatra, "WiFi-Assisted Non-Intrusive Multi-Modal Estimation of Building Occupancy", *ACM Conference on Embedded Networked Sensor Systems (SenSys)*, Delft, The Netherlands, Nov. 2017. [Acceptance Rate = 17%]
5. Pengfei Hu<sup>†</sup>, Parth H. Pathak, Yilin Shen, Hongxia Jin and Prasant Mohapatra, "PCASA: Proximity based Continuous and Secure Authentication of Personal Wearable Devices", *IEEE International*

- Conference on Sensing, Communication and Networking (SECON)*, June 2017. [Acceptance Rate = 26%]
6. Josiah Jee<sup>†</sup>, Aveek Das<sup>†</sup>, Parth H. Pathak, and Prasant Mohapatra, "MotionSync: Personal Energy Analytics through Motion Tags and Wearable Sensing", *ACM International Conference on Systems for Energy-Efficient Built Environments (BuildSys)*, Stanford, CA, 2016. [Acceptance Rate = 24%, Best Paper Award Finalist]
  7. Zhicheng Yang<sup>†</sup>, Parth H. Pathak, Yunze Zeng<sup>†</sup>, Xixi Liran and Prasant Mohapatra, "Monitoring Vital Signs Using Millimeter Wave", *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, Paderborn, Germany, July 2016. [Acceptance Rate = 18%]
  8. Pengfei Hu<sup>†</sup>, Parth H. Pathak, Aveek Das<sup>†</sup>, Zhicheng Yang<sup>†</sup> and Prasant Mohapatra, "PLiFi: Hybrid WiFi-VLC Networking using Power Lines", *ACM Workshop on Visible Light Communication Systems (VLCS)*, co-located with MobiCom 2016.
  9. Hao Fu, Zizhan Zheng, Aveek K. Das<sup>†</sup>, Parth H. Pathak, Pengfei Hu<sup>†</sup>, Prasant Mohapatra, "Flow-Intent: Detecting Privacy Leakage from User Intention to Network Traffic Mapping", *IEEE International Conference on Sensing, Communication and Networking (SECON)*, London, UK, June 2016. [Acceptance Rate = 26%]
  10. Yunze Zeng<sup>†</sup>, Parth H. Pathak and Prasant Mohapatra, "WiWho: WiFi-based Person Identification in Smart Spaces", *ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN)*, Vienna, Austria, February 2016. [Acceptance Rate = 20%]
  11. Aveek Das<sup>†</sup>, Parth H. Pathak, Chen-Nee Chuah and Prasant Mohapatra, "Uncovering Privacy Leakage in BLE Network Traffic of Wearable Fitness Trackers", *ACM International Workshop on Mobile Computing Systems and Applications (HotMobile)*, St. Augustine, FL, USA, Feb. 2016. [Acceptance Rate = 33%]
  12. Pengfei Hu<sup>†</sup>, Parth H. Pathak, Xiaotao Feng, Hao Fu and Prasant Mohapatra, "ColorBars: Increasing Data Rate of LED-to-Camera Communication using Color Shift Keying", *ACM International Conference on emerging Networking EXperiments and Technologies (CoNEXT)*, Heidelberg, Germany, December 2015. [Acceptance Rate = 17%]
  13. Zhicheng Yang<sup>†</sup>, Parth H. Pathak, Yunze Zeng<sup>†</sup> and Prasant Mohapatra, "Sensor-assisted Codebook-based Beamforming for Mobility Management in 60 GHz WLANs", *IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS)*, Dallas, TX, USA, October 2015. [Acceptance Rate = 26%]
  14. Muchen Wu<sup>†</sup>, Parth H. Pathak and Prasant Mohapatra, "Monitoring Building Door Events using Barometer Sensor in Smartphones", *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)*, Osaka, Japan, September 2015. [Acceptance Rate = 22%]
  15. Muchen Wu<sup>†</sup>, Parth H. Pathak and Prasant Mohapatra, "Enabling Privacy-Preserving First-Person Cameras using Low-Power Sensors", *IEEE International Conference on Sensing, Communication, and Networking (SECON)*, Seattle, WA, USA, June 2015. [Acceptance Rate = 28%]
  16. Aveek Das<sup>†</sup>, Parth H. Pathak, Chen-Nee Chuah and Prasant Mohapatra, "Characterization of Wireless Multi-Device Users", *IEEE International Conference on Sensing, Communication, and Networking (SECON)*, Seattle, WA, USA, June 2015. [Acceptance Rate = 28%]
  17. Li Zhang<sup>†</sup>, Parth H. Pathak, Muchen Wu<sup>†</sup>, Yixin Zhao and Prasant Mohapatra, "AccelWord: Energy Efficient Hotword Detection through Accelerometer", *ACM International Conference on Mobile Systems, Applications, and Services (MobiSys)*, Florence, Italy, May 2015. [Acceptance Rate = 13%]
  18. Li Zhang<sup>†</sup>, Chao Xu<sup>†</sup>, Parth H. Pathak and Prasant Mohapatra, "Characterizing Instant Messaging Apps on Smartphones", *Passive and Active Measurements Conference (PAM)*, Springer Pub., New York, NY, USA, March 2015. [Acceptance Rate = 28%]
  19. Chao Xu<sup>†</sup>, Parth H. Pathak and Prasant Mohapatra, "Finger-writing with Smartwatch: A Case for Finger and Hand Gesture Recognition using Smartwatch", *ACM Workshop on Hot Topics in Mobile Computing Systems and Applications (HotMobile)*, Santa Fe, NM, USA, February 2015. [Acceptance Rate = 27%]
  20. Yunze Zeng<sup>†</sup>, Parth H. Pathak, Chao Xu<sup>†</sup> and Prasant Mohapatra, "Your AP Knows How You Move:

Fine-grained Device Motion Recognition through WiFi”, *ACM Workshop on Hot Topics in Wireless (HotWireless)*, Maui, HI, USA (co-located with Mobicom 2014), September 2014.

21. Yunze Zeng<sup>†</sup>, Parth H. Pathak and Prasant Mohapatra, “A First Look at 802.11ac in Action: Energy Efficiency and Interference Characterization”, *IFIP International Conference on Networking (Network-ing)*, Trondheim, Norway, June 2014. [Acceptance Rate = 25%, Best Paper Award]
22. Aveek K. Das<sup>†</sup>, Parth H. Pathak, Chen-Nee Chuah and Prasant Mohapatra, “Contextual Localization Through Network Traffic Analysis”, *IEEE International Conference on Computer Communication (INFOCOM)*, Toronto, Canada, May 2014. [Acceptance Rate = 19%]
23. Gaurish Deuskar, Parth H. Pathak and Rudra Dutta, “Packet Aggregation based Back-pressure Scheduling in Multi-hop Wireless Networks”, *IEEE Wireless Communications and Networking Conference (WCNC)*, Paris, France, April 2012. [Acceptance Rate = 32%]
24. Parth H. Pathak and Rudra Dutta, “Impact of Power Control on Capacity of TDM-scheduled Wireless Mesh Networks”, *IEEE International Conference on Communications (ICC)*, Kyoto, Japan, June 2011. [Acceptance Rate = 38%]
25. Parth H. Pathak and Rudra Dutta, “Using Centrality-based Power Control for Hot-spot Mitigation in Multi-hop Wireless Networks”, *IEEE Global Communications Conference (GlobeCom)*, Miami, FL, USA, December 2010. [Acceptance Rate = 36%]
26. Parth H. Pathak and Rudra Dutta, “Impact of Power Control on Relay Load Balancing in Wireless Sensor Networks”, *IEEE Wireless Communications and Networking Conference (WCNC)*, Sydney, Australia, April 2010. [Acceptance Rate = 37%]
27. Junbum Lim, Parth H. Pathak, M. Pandian, U. Patel, G. Deuskar, A. Danivasa, M.L. Sichitiu, and R. Dutta, “CentMesh: A Modular and Extensible Wireless Mesh Network Testbed”, *International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TridentCom)*, Berlin, Germany, May 2010.
28. Parth H. Pathak and Rudra Dutta, “Impact of Power Control on Capacity of Large Scale Wireless Mesh Networks”, *IEEE International Symposium on Advanced Networks and Telecommunication Systems (ANTS)*, New Delhi, India, December 2009.
29. Dheeraj Kandula, Parth H. Pathak and Rudra Dutta, “MF-TCP : Design and Evaluation of TCP for Message Ferry Delay Tolerant Networks”, *Australasian Telecommunication Networks and Applications Conference (ATNAC)*, Canberra, Australia, November 2009.
30. Parth H. Pathak, Divya Gupta and Rudra Dutta, “Loner Links Aware Routing and Scheduling in Wireless Mesh Networks”, *IEEE International Symposium on Advanced Networks and Telecommunication Systems (ANTS)*, Mumbai, India, December 2008.

#### INVITED PAPERS

1. Ningning Cheng, Shaxun Chen, Parth H. Pathak, Prasant Mohapatra, “Long-term Privacy Profiling through Smartphone Sensors”, *International Workshop on Social Sensing (SocialSens)*, Dallas, TX, USA (co-located with MASS 2015), October 2015.
2. Christopher Buckley<sup>†</sup>, Parth H. Pathak, Aveek Das<sup>†</sup>, Chen-Nee Chuah and Prasant Mohapatra, “AnonAD: Privacy-aware Micro-targeted Mobile Advertisements without Proxies”, *IEEE International Conference on Computer Communications and Networks (ICCCN)*, Las Vegas, NV, USA, August 2015.
3. Yunze Zeng<sup>†</sup>, Parth H. Pathak and Prasant Mohapatra, “Analyzing Shopper’s Behavior through WiFi Signals”, *ACM Workshop on Physical Analytics (WPA)*, Florence, Italy (co-located with MobiSys 2015), May 2015.

#### POSTERS AND DEMOS

1. Yixin Zhao<sup>†</sup>, Parth H. Pathak, Chao Xu and Prasant Mohapatra, “Demo: Finger and Hand Gesture Recognition using Smartwatch”, *ACM International Conference on Mobile Systems, Applications, and Services (MobiSys)*, Florence, Italy, May 2015.

2. Parth H. Pathak, Sankalp Nimbhorkar and Rudra Dutta, "Poster: Channel Width Assignment using Relative Backlog: Extending Back-pressure to Physical Layer", *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, Hilton Head Island, SC, USA, June 2012.

## PATENTS

1. Prasant Mohapatra, Parth H. Pathak and Yunze Zeng, "WiFi-based person-identification technique for use in smart spaces", US Patent App. 10/045,717, patent issued on 08/14/2018.
2. Prasant Mohapatra, Li Zhang, Parth H. Pathak and Muchen Wu, "Energy-efficient, accelerometer-based hotword detection to launch a voice-control system", US Patent App. 15/498,835, patent filed on 04/27/2017.

## RESEARCH GRANTS

### AWARDED

#### **4 grants, total Mason value \$1.2M**

1. **NSF: CNS-1815945** "NeTS: Small: Collaborative Research: Reliable 60 GHz WLANs through Coordination: Measurement, Modeling and Optimization",  
Lead PI: Parth Pathak, Collaborative grant with Zizhan Zheng (Tulane University),  
Grant amount: \$499,028.00 (GMU Share: \$263,116.00), Duration: 10/2018 - 9/2021.
2. **NSF: CNS-1730083** "II-New: 60 GHz Millimeter-Wave Testbed for Multi-Gigabit Wireless Networking",  
Lead PI: Parth Pathak, Co-PIs: Robert Simon, Brian Mark, Zhi Tian,  
Grant amount: \$843,718.00, Duration: 10/2017 - 9/2019.
3. **GMU: Summer Impact Undergraduate Research** "Multi-modal Sign Language Recognition",  
Lead PI: Parth Pathak, Co-PIs: Huzefa Rangwala, Jana Kosecka, Linda Mason,  
Grant amount: \$48,000.00, Duration: 05/2019 - 08/2019.
4. **Google Faculty Research Award** "Multimodal American Sign Language Recognition",  
Lead PI: Jana Kosecka, Co-PIs: Parth Pathak, Huzefa Rangwala,  
Grant Amount: \$50,894.00, Duration: 05/2019 - 05/2020.

## TEACHING

### AT GEORGE MASON UNIVERSITY

1. **CS 471: Operating Systems (Fall '18)**  
Enrollment: 6, Instructor rating: 5.00, Course rating: 4.50
2. **CS 695: Wireless and Mobile Computing (Fall '17)**  
Enrollment: 21, Instructor rating: 4.82, Course rating: 4.76
3. **CS 471: Operating Systems (Spring '17)**  
Enrollment: 47, Instructor rating: 4.03, Course rating: 3.79
4. **CS 695: Wireless and Mobile Computing (Fall '16)**  
Enrollment: 11, Instructor rating: 4.80, Course rating: 4.80

## STUDENT ADVISING

### AT GEORGE MASON UNIVERSITY

#### o **PhD Dissertation Advisor**

1. Ding Zhang (PhD, CS, Expected 2020)  
Topic: Exploiting coordination for reliable 60 GHz WLANs
2. Panneer Selvam Santhalingam (PhD, CS, Expected 2021)  
Topic: Ubiquitous sensing using millimeter-wave signals

- 3. Yoon Chae (PhD, CS, Expected 2021)  
Topic: Low-power, high-speed wireless networking for IoT devices
- 4. Aiswarya Kannan (PhD, CS, Expected 2022)  
Topic: Infrastructure mobility in millimeter-wave networks
- **PhD Dissertation Committee Member**
  - 1. Reem Albarrack (PhD IT)
  - 2. Hanke Cheng (PhD ECE)
  - 3. Abhishek Roy (PhD CS)
  - 4. Arda Gumusalan (PhD CS, 2019)
  - 5. Haoliang Wang (PhD CS, 2019)
- **Master Research Project**
  - 1. Mihir Garude (MS, ECE, Spring 17 - Summer 18)
- **Undergraduate Research**
  - 1. Yuanqi Du

AT UNIVERSITY OF CALIFORNIA, DAVIS (AS A POST-DOCTORAL SCHOLAR)

- **PhD Dissertation Mentor**
  - 1. Zhicheng Yang (PhD, Expected 2019)
  - 2. Aveek Das (PhD, 2018)
  - 3. Yunze Zeng (PhD, 2018)
  - 4. Pengfei Hu (PhD, 2018)
  - 5. Arun Raghuramu (PhD, 2018)
  - 6. Muchen Wu (PhD, Expected 2019)
  - 7. Li Zhang (PhD, 2015)
- **Masters and Undergraduate Research**
  - 1. Chao Xu (MS, 2015)
  - 2. Amanda Lins (BS, 2013)
  - 3. Andrew Yi (BS, 2014)
  - 4. Yumo Rong (BS, 2014)
  - 5. Lidan Mu (BS, 2015)
  - 6. Jeymisson Oliveira (BS, 2015)

## HONORS AND AWARDS

- **Excellence in Postdoctoral Research at UC Davis** - Campus-wide award for outstanding postdoctoral research; One of the two recipients of the award for year 2015 selected from 800+ postdocs at UC Davis.
- **Best Paper Award** at IFIP International Networking Conference 2014 for work titled "A First Look at 802.11ac in Action: Energy Efficiency and Interference Characterization".
- **Best Paper Finalist** at ACM BuildSys Conference for work titled "MotionSync: Personal Energy Analytics through Motion Tags and Wearable Sensing".
- **Distinguished member** of technical program committee for IEEE Infocom 2019, 2018 and 2017.
- Best Poster Award at NC State Graduate Student Seminar 2007 for poster titled "Software-defined Cognitive Radio Networks".
- Research In Motion (RIM) Graduate Research Fellowship 2011, North Carolina State University.
- Research fellowship for 2008-2010 from Army Research Office (ARO), managed by Secure Open Systems Initiative (SOSI) at NC State University.

## SERVICE

### UNIVERSITY, COLLEGE AND DEPARTMENT SERVICE

At George Mason University

- Computer Science Ph.D. Admissions Committee 2017, 2019
- Computer Science MS Admissions Committee 2018, 2019

### PROFESSIONAL SERVICE

- **Conference/Workshop Technical Program Committee**
  - IEEE Workshop on Mobile Energy Sharing Networks (MESN) 2019
  - IEEE International Conference on Computer Communications (INFOCOM) 2019
  - IEEE Wireless Communications and Networking Conference (WCNC) 2019
  - IEEE International Conference on Computer Communications (INFOCOM) 2018
  - ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) 2018
  - ACM Workshop on Millimeter Wave Networks and Sensing Systems (mmNets) 2018
  - International Conference on Computer Communications and Networks (ICCCN) 2018
  - IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS) 2018
  - IEEE Global Communication Conference (GlobeCom) 2018
  - IEEE International Conference on Computer Communications (INFOCOM) 2017
  - ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and CHaracterization (WinTech) 2016
  - IEEE Wireless Communications and Networking Conference (WCNC) 2016
  - IEEE Wireless Communications and Networking Conference (WCNC) 2014
  - IEEE Global Communication Conference (GlobeCom) 2013
  - IEEE International Symposium on Personal, Indoor and Mobile Radio Communication (PIMRC) 2012
  - IEEE Wireless Communications and Networking Conference (WCNC) 2013
  - IEEE Wireless Communications and Networking Conference (WCNC) 2012
  - IEEE International Symposium on Personal, Indoor and Mobile Radio Communication (PIMRC) 2011
  - IEEE Wireless Communications and Networking Conference (WCNC) 2011
- **Conference Organization**
  - Publicity chair, IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM) 2014
- **Journal Reviewing**
  - ACM Journal on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2017-2018
  - IEEE Transactions on Mobile Computing (TMC), 2015-2019
  - IEEE/ACM Transactions on Networking (ToN), 2016-2019
  - IEEE Transactions on Wireless Communications (TWC), 2017, 2019
  - ACM SIGMOBILE Mobile Computing and Communications Review (MC2R), 2015
  - IEEE Transactions on Vehicular Technology (TVT), 2016
  - Elsevier Computer Networks, 2014-2016
  - Elsevier Ad hoc networks, 2015-2016
- **Grant Proposal Review**
  - National Science Foundation (NSF) review panelist 2019, 2018, 2017