

Yuguang “Michael” Fang, PhD, FIEEE, FAAAS

Department of Electrical and Computer Engineering
Herbert Wertheim College of Engineering
University of Florida
435 Engineering Building, P.O.Box 116130
Gainesville, FL 32611-6130
Tel: (352) 846-3043, Fax: (352)392-0044
Email: fang@ece.ufl.edu, Webpage: <http://www.fang.ece.ufl.edu/>

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1 EDUCATION

- PhD in Electrical Engineering, majoring in Computer Networks and Communications, **Boston University**, Boston, Massachusetts, May 1997.
 - *Advisor*: Thomas G. Kincaid and Imrich Chlamtac
 - *PhD Dissertation*: “Personal Communications Services(PCS) Networks: Modeling and Performance Analysis.”
- PhD in Systems and Control Engineering, **Case Western Reserve University**, Cleveland, Ohio, January 1994.
 - *Advisor*: Kenneth A. Loparo
 - *PhD Dissertation*: “Stability Analysis of Linear Control Systems with Uncertain Parameters.”
- MS in Mathematics, **Qufu Normal University**, Shandong, China, July 1987.

2 RESEARCH INTERESTS

My research addresses important issues of “connected things” by leveraging information and communication technologies (ICT) to harvest resource and extract intelligence for better management and control of physical systems to improve people’s quality of life while securing operational data and preserving participants’ privacy. Current interests can be categorized into the following few research themes.

- Cybersecurity
 - E-Health/m-Health Systems: Privacy Preservation and Secure Protection of Personal Identifiable Information (PII), Cloud-Assisted Remote Health Monitoring, Secure Data Storage, User-authorized Access Control, Cross-domain Authentication, and Data Access at Emergency Situation
 - Online Social Networks: Reputation-based Information Sharing and Privacy-preserving Dissemination, Privacy-preserving Data/Friend Search, Privacy-preserving User Profiling
 - Smart Grid: Privacy-preserving Energy Usage Aggregation and Profiling, Interdependency and Joint Secure Design of Physical Power Grid, Communications Systems, and Control Subsystems
 - Wireless/Mobile Networks: ID-based Cryptography and its Application, Location Privacy, Anonymous Communications, Key Management and Trust Management, Confidentiality, Integrity, Authentication, Access Control, Trust-based Routing Algebra and Formal Analysis, Secure Connectivity and Network Performance
- Wireless Networks/Mobile Computing, Internet of Things, Network Optimization and Control
 - 5G Systems and Beyond: Small Cell Systems, Mobility Management and Resource Management, Green Communications
 - Cognitive Radio Networks: Collaborative Architectural Design and Optimization, Resource Harvesting and Management, Integration with Other Wireless Systems and Their Applications
 - Wireless Ad Hoc Networks: Mobile Ad Hoc Networks, Wireless Sensor Networks and Wireless Mesh Networks
 - Wireless Medium Access Control (MAC), Scheduling, and Routing
 - Cross-layer Design and Optimization
 - Network Connectivity and Capacity

- Smart Grid and Energy Management
 - Energy Scheduling and Optimization in Residential Areas and Large Energy Consumers
 - Green Energy Management for Data Centers
 - Green Communications and Renewable Energy Integration
 - Reliable and Secure Information Network Support for Energy Management, Power Reliability and Sustainability, Power Stability and Control, and Rapid Power Restoration after Disaster.

3 WORK EXPERIENCE

- **Professor**, Department of Electrical and Computer Engineering, **University of Florida**, Gainesville, Florida, *August 2005-Present*.
- **University of Florida Term Professor**, **University of Florida**, Gainesville, Florida, *January 2017-December 2019*.
- **University of Florida Research Foundation Professor**, Department of Electrical and Computer Engineering, **University of Florida**, Gainesville, Florida, *2017-2020, 2006-2009*.
- **Associate Professor**, Department of Electrical and Computer Engineering, **University of Florida**, Gainesville, Florida, *August 2003-August 2005*.
- **Assistant Professor**, Department of Electrical and Computer Engineering, **University of Florida**, Gainesville, Florida, *June 2000-July 2003*.
- **Assistant Professor**, Department of Electrical and Computer Engineering, **New Jersey Institute of Technology**, Newark, New Jersey, *September 1998-May 2000*.
- **Visiting Assistant Professor**, Department of Electrical Engineering, Erik Jonsson School of Engineering and Computer Science, **The University of Texas at Dallas**, Richardson, Texas, *June 1997-August 1998*.
- **Postdoctoral Research Associate**, Department of Electrical and Computer Engineering, **Boston University**, June 1994-September 1995.
- **Research Associate**, Department of Systems and Control Engineering, **Case Western Reserve University**, Cleveland, Ohio, *January 1994-May 1994*.
- **Teaching and Research Faculty**, Department of Mathematics & The Institute of Automation, **Qufu Normal University**, Shandong, China, *July 1987-October 1988*.

4 HONORS AND AWARDS

- **Fellow of the American Association for the Advancement of Science (AAAS)** (Class 2015) (“For distinguished research and teaching contributions to the field of electrical and computer engineering, particularly for wireless network design and cybersecurity”).
- **Fellow of the Institute of Electrical and Electronics Engineers (IEEE)** (Class 2008) (through the IEEE Communications Society) (“For contributions to wireless networks and mobile computing systems”).
- **2015 IEEE Communications & Information Security Technical Committee (CISTC) Technical Recognition Award**, IEEE Communication Society (“For Contributions to Security and Privacy on Wireless Networks and Mobile Computing Systems”).

- **2014 IEEE Wireless Communications Technical Committee (WTC) Recognition Award**, IEEE Communication Society (“For high degree of visibility and contribution in the field of ‘Wireless and Mobile Communications Theory, Systems, and Networks’ ”).
- **University of Florida Research Foundation (UFRF) Professorship**, 2017-2020, 2006-2009.
- **University of Florida Term Professorship, University of Florida**, Gainesville, Florida, *January 2017-December 2019*.
- **IEEE Distinguished Lecturer**, IEEE Vehicular Technology Society, 2015-2017.
- **IEEE Distinguished Lecturer**, IEEE Communications Society, 2012-2015.
- The **Best Paper Award** for the paper “Privacy-preserving verifiable proximity test for location-based services” (G. Zhuo, Q. Jia, L. Guo, M. Li and Y. Fang) in *Symposium on Communications and Information System Security at IEEE Globecom*, San Diego, California, 6-10 December, 2015.
- The **Best Paper Award** for the paper “Economic-robust session based spectrum trading in multi-hop cognitive radio networks” (X. Li, M. Pan, Y. Song, Y. Sun and Y. Fang) in *Symposium on Cognitive Radio and Wireless Networks at IEEE Globecom*, San Diego, California, 6-10 December, 2015.
- The **Best Paper Runner-Up Award** for the paper “Information-centric resource management for air pollution monitoring with multihop cellular network architecture” (P. Si, Q. Li, Y. Zhang and Y. Fang) at *The 10th International Conference on Wireless Algorithms, Systems, and Applications (WASA 2015)*, Qufu, Shandong, China, August 10-12, 2015.
- The **Best Paper Award** for the paper “Cutting Down Electricity Cost in Internet Data Centers by Using Energy Storage” (Yuanxiong Guo, Zongrui Ding, Yugang Fang and Dapeng Wu) in *Symposium on the Communications QoS, Reliability, and Modeling at IEEE Globecom’2011*, Houston, TX, USA, 2011.
- The **Best Paper Award** for the paper “Impact of routing metrics on path capacity in multi-rate and multi-hop wireless ad hoc networks” (H. Zhai and Y. Fang) at *The 14th IEEE International Conference on Network Protocols (ICNP’06)*, Santa Barbara, California, November 12-15, 2006.
- The **IEEE TCGN Best Paper Award** for the paper “Fast Collision Resolution (FCR) MAC Algorithm for Wireless Local Area Networks” (Younggoo Kwon, Yuguang Fang and Haniph Latchman) at *IEEE High-Speed Networks Symposium 2002*, a part of *IEEE Globecom’2002*, Taipei, Taiwan, November 17-21, 2002.
- **National Science Foundation Faculty Early Career Development Award**, June 2001.
- **Office of Naval Research Young Investigator Award**, May 2002.
- **Changjiang Scholar Chair Professorship** (Sponsored by The Ministry of Education, China and Li Ka-shing Foundation), Xidian University, Xi’an, China, 2008-2015, Dalian Maritime University, Dalian, China, 2015-2018.
- **Overseas Academic Master**, Dalian University of Technology, Dalian, China, May 2016-present.
- **Guest Chair Professorship**, Department of Electronic Engineering, Tsinghua University, Beijing, China, 2009-2012.
- **JSPS Invitation Fellowship**, Japan Society for the Promotion of Science, May-July 2009.
- **NSC Visiting Researcher (Professorship sponsored by National Research Council, Taiwan)**, Department of Computer Science and Information Engineering, National Taiwan University, 2007-2008.

- CAST 2001 Academic Excellence Award, Chinese Association for Science and Technology (CAST), USA.
- 2015-2016 University of Florida College of Engineering (CoE) Doctoral Dissertation Advisor/Mentoring Award.
- 2011 Florida Blue Key/UF Homecoming **Distinguished Faculty Award**.
- 2010-2011 **UF Doctoral Dissertation Advisor/Mentoring Award** at University of Florida, 2011.
- 2010-2011 University of Florida College of Engineering (CoE) Doctoral Dissertation Advisor/Mentoring Award.
- 2009 College of Engineering **Faculty Mentoring Award**, University of Florida, 2009.
- 2006-2007 University of Florida College of Engineering (CoE) Doctoral Dissertation Advisor/Mentoring Award.
- 2005-2006 University of Florida College of Engineering (CoE) Doctoral Dissertation Advisor/Mentoring Award.
- Guest Professor, Shanghai Jiao Tong University, Shanghai, China, June 2014-May 2017.
- Overseas Adviser to the Dean, School of Information Science and Technology, Southwest Jiao Tong University, Chengdu, Sichuan, June 2014-present.
- CAS Overseas Academic Experts, Chinese Academy of Sciences, 2013-present.
- Guest Professor, University of Science and Technology of China, Hefei China, August 1, 2012 to July 31, 2015.
- Guest Professor, Beijing University of Posts & Telecommunications, China, November 1, 2004 to April 30, 2010.
- Guest Professor, Chinese Academy of Science, China, July 2004-December 2006.
- 2004 IEEE Regional Activities Board (RAB) Section Membership Growth Award, given to IEEE Gainesville Section (Fang as the Section Chair).
- IEEE Appreciation Award for Notable Services and Contributions towards the Advancement of IEEE and Engineering Professions as the IEEE Gainesville Section Chair, given by IEEE Florida Council in 2004 and 2005.

5 FUNDING

The total funding since joining University of Florida exceeds **\$7M** mostly from competitive funding sources such as National Science Foundation.

1. “NeTS: Small: Proof-of-Concept Study on an Emerging Mobile Data Transportation Network,” **PI**. National Science Foundation. \$125,000, 10/1/2017-9/30/2018.
2. “SCH: INT: Collaborative Research: Crowd in Action: Human-Centric Privacy-preserving Multi-scale Data Analytics for Environmental Public Health,” **PI**. National Science Foundation. \$413,000, 9/1/2017-8/31/2021. This is a collaborative project with Dr. Linke Guo at Binghamton University and Dr. Guirong Wang, SUNY Upstate Medical University (Upstate). University of Florida is the leading institution. The total award amount is \$980,000.

3. Editorial support for Editor-in-Chief, *IEEE Transactions on Vehicular Technology*. IEEE. \$20,000. Jan 1, 2016-June 30, 2017.
4. Editorial support for Editor-in-Chief, *IEEE Transactions on Vehicular Technology*. IEEE. \$40,000. Jan 1, 2016-December 31, 2016.
5. Editorial support for Editor-in-Chief, *IEEE Transactions on Vehicular Technology*. IEEE. \$40,000. Jan 1, 2015-December 31, 2015.
6. Editorial support for Editor-in-Chief, *IEEE Transactions on Vehicular Technology*. IEEE. \$40,000. Jan 1, 2014-December 31, 2014.
7. “CSR:Small:Collaborative Research:CAM:A Cloud-Assisted mHealth Monitoring System,” **PI**. National Science Foundation. \$200,000, 10/1/2014-7/31/2017. This is a collaborative project with Dr. Jinyuan Sun at University of Tennessee at Knoxville. University of Florida is the leading institution. The total award amount is \$400,000.
8. “NeTS: Medium: New Technologies for Next-generation Infrastructural Tagged Systems,” (**Co-PI** with Dr. Shigang Chen as **PI**). National Science Foundation. \$914,934, 8/1/2014-7/31/2018.
9. “EARS: Collaborative Research: Cognitive Mesh: Making Cellular Networks More Flexible,” (**PI**). National Science Foundation. \$409,498, 1/1/2014-12/31/2017. This is a collaborative project with Dr. Pan Li at Mississippi State University and Dr. Miao Pan at Texas Southern University. University of Florida is the leading institution. The total award amount is \$982,796.
10. Editorial support for Editor-in-Chief, *IEEE Transactions on Vehicular Technology*. IEEE. \$40,000. July 1, 2013-December 31, 2013. (This funding is renewable as long as I serve as the Editor-in-Chief. There is no firm term limit for the Editor-in-Chief of this journal.)
11. “CCSS:Collaborative Research:Stochastic Modeling and Optimization for Cognitive Radio Networks,” (**PI**). National Science Foundation. \$240,000, 9/15/2011-8/31/2015. This is a collaborative project with Dr. Pan Li at Mississippi State University. University of Florida is the leading institution. The total award amount is \$400,000.
12. “NeTS: Collaborative Research: Cognitive-Capacity Harvesting Networks,” (**PI**). National Science Foundation. \$291,400, 9/1/2011-8/31/2014. This is a collaborative project with Dr. Pan Li at Mississippi State University and Dr. Savo Glisic at University of Oulu, Finland. University of Florida is the leading institution. The total US award amount is \$470,000.
13. “Sponsoring Wireless Networks Laboratory (WINET) Research Activities,” Donation from Japan Patent Office, \$10,000, July 1, 2010.
14. “Wireless Networks Laboratory (WINET) Research,” Donation from Huawei Technologies Co. Ltd, \$59,970, February 1, 2010.
15. “NeTS:Small: How to Exploit Social Network Theory in Designing Secure Wireless Networks,” (**PI**). National Science Foundation. \$422,200, 9/1/2009-8/31/2013.
16. “Smart Street Network : Transforming a City’s Transportation Infrastructure into A High Speed Communication Infrastructure,” (**Co-PI** with Shigang Chen as the **PI**). UF Research Foundation. \$82,532, 5/1/2008-4/30/2010.
17. “NeTS-WN: A Novel Cross-layer Design Approach for Wireless Ad Hoc Networks,” (**PI**). National Science Foundation. \$300,000, 9/1/2007-8/31/2011.

18. "COLLABORATIVE RESEARCH: CT-ISG: Overlay-Based User Unlocatability and Communication Anonymity in Mobile Ad Hoc Networks," (PI). National Science Foundation. \$234, 000, 8/1/2007-7/31/2011. This is a collaborative project with Dr. Yanchao Zhang, New Jersey Institute of Technology. The total award amount is \$450, 000, University of Florida is the leading institution and Fang is the overall PI for this project.
19. "NeTS-NBD: COLLABORATIVE RESEARCH: UPASS-An Attack Resilient Security Architecture for Wireless Mesh Networks," (PI). National Science Foundation. \$320, 000, 9/15/2006-8/31/2010. This is a collaborative project with Dr. Wenjing Lou, Worcester Polytechnic Institute. The total award amount is \$570, 000, University of Florida is the leading institution and Fang is the overall PI for this project.
20. University of Florida Research Foundation Professorship Award, UF Research Foundation. \$18, 000. 4/1/2006-6/30/2009.
21. "SIRG: COLLABORATIVE RESEARCH: DeerNet-Wireless Sensor Networking for Wildlife Behavior Analysis and Interaction Modeling,"(PI). National Science Foundation, with Dapeng Wu. \$570, 000, 9/15/2005-8/31/2009. This is a collaborative project with Dr. Zhihai He and Dr. Josh J. Millsbaugh, University of Missouri, Columbia. The total award amount is \$1, 050, 000, University of Florida is the leading institution and Fang is the overall PI for this project.
22. "HANET: Heterogeneous Ad Hoc Networks Testbed,"(Co-PI), *Army Research Office*, with John Shea (PI) and Tan Wong, \$109, 604, 5/1/2004-4/30/2005.
23. "Cross-Layer optimization: network diversity through relaying in ad hoc networks," (Co-PI), *Harris Corporation*, with John Shea (PI) and Tan Wong, \$72, 145, 10/29/2003-7/15/2005.
24. "Proof of concept for using airborne traffic surveillance systems for Florida and its applications," (Co-PI), *Florida Department of Transportation*, with Haniph Latchman (PI), Tan Wong, John Shea, Janise McNair, David Bloomquist and Yue Li, \$250, 458, 11/19/2002-7/31/2004.
25. "Reconfigurable Multi-node Wireless Communication Testbed," (Co-PI, with Tan Wong (PI) and John Shea), *National Science Foundation*, \$67, 200, 7/1/2002-6/30/2005.
26. "Comparative Study of Spread Spectrum and Time Modulation Ultra-Wideband Communications," (Co-PI, with Tan Wong (PI) and John Shea), *Air Force Research Lab*, \$300, 000, 6/1/2002-5/31/2003.
27. "ITR: Cooperative Communications Schemes for Wireless Networks," (Co-PI, with Tan Wong (PI) and John Shea), *National Science Foundation*, \$450, 000, 7/1/2002-6/30/2006.
28. "Secure and Power Efficient Protocols for Reliable Data Delivery for Heterogeneous Tactical Ad Hoc Networks,"(PI), *Office of Naval Research Young Investigator Award*, \$300, 000, 5/1/2002-6/30/2005.
29. "Collaborative Transmission and Reception," (Co-PI, with Tan Wong (PI) and John Shea), *Office of Naval Research*, \$275, 199, 5/1/2002-9/31/2004.
30. "Powerline Communications and Networking Research (Supplement)," (PI) *Samsung Electro-Mechanics, Inc., Korea*, \$18, 439, 7/1/2002-8/30/2002.
31. "Powerline Communications and Networking Research," (PI, joint effort with Jonathan Liu), *Samsung Electro-Mechanics, Korea*, \$75, 058, 7/1/2001-6/30/2002.
32. "OFDM Technologies and QoS MAC Protocols for Fixed Wireless Networks (Supplement)," (PI, with Tan Wong and John Shea), *Samsung Electro-Mechanics, Inc., Korea*, \$39, 599, 7/1/2002-8/30/2002.

33. “OFDM Technologies and QoS MAC Protocols for Fixed Wireless Networks,” (**PI**, joint effort with Tan Wong and John Shea), *Samsung Electro-Mechanics, Korea*, \$74,942, 7/1/2001-6/30/2002.
34. “Intelligent Resource Management and Performance Evaluation for Wireless Mobile Networks Supporting Integrated Services,”(**PI**), *National Science Foundation Faculty Early Career Development Award*, \$369,120, 6/1/2001-5/31/2006.

6 ACADEMIC SERVICES

6.1 Scholarly Supervision

I am currently supervising a research group consisting of **6** PhD students. Since joining University of Florida in 2000, I have graduated **26** Ph.D. students. **13** of them landed academic positions, **2** found postdoc positions, and **3** of them secured research positions in reputable research labs. Among **8** graduates with academic positions in USA, **4** won the **NSF CAREER Award**. I have supervised **5** postdoctoral researchers, and **2** of them found faculty positions after completion.

6.1.1 Current Graduate Students

- PhD students: Haichuan Ding, Yaodan Hu, Jianqing Liu, Yawei Pang, Kaichen Yang, Lan Zhang.

6.1.2 Graduated PhD Students

1. **Yanmin Gong**, August 2016. Initial employment: Assistant Professor, School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, Oklahoma. Ph.D Dissertation: *Privacy-Preserving Data Analytics for Big Data Applications*.
2. **Hao Yue**, August 2015. Initial employment: Assistant Professor, Department of Computer Science, San Francisco State University, San Francisco, California. Ph.D Dissertation: *Protocol Design and Optimization for Future Wireless Systems*.
3. **Kaihe Xu**, August 2015. Initial employment: Senior Engineer, Tencent Holdings Limited, Shenzhen, Guangdong, China. Ph.D Dissertation: *Secure Collaborative Machine Learning in Big Data Systems*.
4. **Linke Guo**, August 2014. Initial employment: Assistant Professor, Department of Electrical and Computer Engineering, Binghamton University (State University of New York at Binghamton), Binghamton, New York. Ph.D Dissertation: *Security and Privacy Preservation for Information Sharing and Dissemination*.
5. **Yuanxiong Guo**, August 2014. Initial employment: Assistant Professor, School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, Oklahoma. Ph.D Dissertation: *Energy Optimization and Control for Data Centers and Smart Grids*.
6. **Huang Lin**, August 2014. Initial employment: Postdoc, Computer Communications and Applications Laboratory, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland. Ph.D Dissertation: *Privacy Preserving Protocol Design in Distributed Computing Environments*.
7. **Miao Pan**, Ph.D, August 2012. Initial employment: Assistant Professor, Department of Computer Science, Texas Southern University, Houston, Texas. Current position: Assistant Professor, Department of Electrical and Computer Engineering, University of Houston, Houston, Texas. Ph.D Dissertation: *Spectrum Management in Multi-hop Cognitive Radio Networks: Architecture, Modeling and Design*. Won the **National Science Foundation CAREER Award**.
8. **Chi Zhang**, Ph.D, August 2011. Initial employment: Associate Professor, School of Information Science and Technology, University of Science and Technology of China, Hefei, Anhui, China. Current position: the same. Ph.D Dissertation: *Improving the Performance and Security of Multi-hop*

Wireless Networks. Won **The IEEE Communications Society Asia Pacific Region Outstanding Young Researcher Award** and **The Gator of Engineering Attribute Graduate Student Award for Creativity in 2011**.

9. **Rongsheng Huang**, Ph.D, August 2011. Initial employment: Member of Technical Staff, Olympus Communications Technology of America, San Diego, California. Current position: Member of Technical Staff, MediaTek, San Jose, California. Ph.D Dissertation: *On Employment of Multi-hop Wireless Ad Hoc Networks: Throughput Improvement and Mobility Support*.
10. **Yang Song**, Ph.D, August 2010. Initial employment: Postdoc, IBM T.J. Watson Research Center, Hawthorne, New York. Current position: Research Staff Member, IBM Almaden Research Center, San Jose, California. Ph.D Dissertation: *Dynamic Resource Allocation and Optimization in Wireless Networks*.
11. **Jinyuan (Stella) Sun**, Ph.D, August 2010. Initial employment: Assistant Professor, Department of Electrical Engineering and Computer Science, University of Tennessee, Knoxville, Tennessee. Current position: the same. Ph.D Dissertation: *Security and Privacy in Wireless Networks and Critical Systems*.
12. **Feng Chen**, Ph.D, August 2009. Initial employment: Senior Engineer, Scalable Network Technologies, Los Angeles, California. Current position: JP Morgan, New York. Ph.D Dissertation: *MAC-Anchored Cross-layer Design in Multihop Wireless Ad Hoc Networks*.
13. **Pan Li**, Ph.D, August 2009. Initial employment: Assistant Professor, Department of Electrical and Computer Engineering, Mississippi State University, Mississippi State, Mississippi. Current position: Assistant Professor, Department of Electrical Engineering and Computer Science, Case Western Reserve University, Cleveland, Ohio. Ph.D Dissertation: *Capacity Analysis and Cross-layer Protocol Design in Wireless Networks*. Won the **National Science Foundation CAREER Award**.
14. **Xiaoxia Huang**, Ph.D, August 2007. Initial employment: Assistant Researcher, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China. Current employment: Researcher, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China. Ph.D Dissertation: *Routing Protocols in Ad Hoc Networks: Robustness and Optimization*.
15. **Yun Zhou**, Ph.D, August 2007. Initial employment: Software Engineer, Microsoft Corporation, Redmond, Washington. Current position: the same. Ph.D Dissertation: *Security in Wireless Sensor Networks*.
16. **Jianfeng Wang**, Ph.D, December 2006. Initial employment: Senior Technical Research Staff, WiCAN-Wireless Communications and Networking Department, Philips Research North America, Briarcliff Manor, New York. Current position: Super Lighting North America, Los Angeles, CA. Ph.D Dissertation: *Distributed Scheduling for Harnessing Channel Diversity and Smart Antennas in Wireless Networks*.
17. **Shushan Wen**, Ph.D, December 2006. Initial employment: Senior Software Engineer, Bay Microsystems, San Jose, California. Current employment: Senior Software Engineer, AMCC. Ph.D Dissertation: *Traffic Control in TCP/IP Networks*.
18. **Hongqiang Zhai**, Ph.D, August 2006. Initial employment: Senior Technical Research Staff, WiCAN-Wireless Communications and Networking Department, Philips Research North America, Briarcliff Manor, New York. Current position: Financial Analyst, Two Sigma Investments, LLC, New York, New York. Ph.D Dissertation: *Cross-layer Design of Networking Protocols in Wireless Local Area Networks and Mobile Ad Hoc Networks*. Won the **Best Paper Award** for the paper "Impact of Routing Metrics on Path Capacity in Multi-rate and Multi-hop Wireless Ad Hoc Networks" (Hongqiang Zhai

and Yuguang Fang) in *The 14th IEEE International Conference on Network Protocols (ICNP)*, Santa Barbara, California, November 12-15, 2006.

19. **Yanchao Zhang**, Ph.D, August 2006. Initial employment: Assistant Professor, Department of Electrical and Computer Engineering, New Jersey Institute of Technology, Newark, New Jersey. Current employment: Associate Professor, School of Electrical, Computer, and Energy Engineering Arizona State University, Tempe, Arizona. Ph.D Dissertation: *Security in Heterogenous Wireless Ad Hoc Networks: Challenges and Solutions*. Won the **National Science Foundation CAREER Award**.
20. **Jing Zhao**, Ph.D, December 2005. Initial employment: Unknown. Current position: Unknown. Ph.D Dissertation: *Information Theoretic Approach for Low Complexity Adaptive Motion Estimation*. Serving as the co-adviser with Dr. Dapeng Wu as the main adviser.
21. **Wei Liu**, Ph.D, August 2005. Initial employment: Senior Engineer, Scalable Network Technologies, Tampa, Florida. Current position: Senior Engineer, Scalable Network Technologies, Los Angeles, California. Current position: the same. Ph.D Dissertation: *Cross-layer Design of Resource Aware Protocols for Heterogeneous Wireless Ad Hoc Networks*.
22. **Xiang Chen**, Ph.D, August 2005. Initial employment: Senior Engineer, Motorola Labs, Illinois. Current position: Huawei Technologies R&D USA, Santa Clara, CA. Ph.D Dissertation: *Resource Management for Wireless Networks*.
23. **Byung-seo Kim**, Ph.D, December 2004. Initial employment: Senior Engineer, Motorola, Inc., Illinois. Current position: Associate Professor, Department of Computer Information & Communication, Hongik University, Korea. Ph.D Dissertation: *Link-Adaptive Medium Access Control Protocol for High-Speed Wireless Networks*.
24. **Wenjing Lou**, Ph.D, August 2003. Initial employment: Assistant Professor, Department of Electrical and Computer Engineering, Worcester Polytechnic Institute, Massachusetts. Current position: Professor, Department of Computer Science, Virginia Tech, Virginia. Ph.D Dissertation: *SPREAD: Secure Protocol for Reliable Data Delivery*. Won the **National Science Foundation CAREER Award**.
25. **Wenchao Ma**, Ph.D, August 2003. Initial employment: Associate Researcher, Microsoft Research Asia, Beijing, China. Current position: Senior Researcher and Manager, Lenovo Research. Ph.D Dissertation: *Mobility Management for Wireless Mobile Networks*.
26. **Younggoo Kwon**, Ph.D, August 2002. Initial employment: Manager, Samsung Electro-Mechanics, Inc., Korea. Current position: Associate Professor, Konkuk University, Korea. Ph.D Dissertation: *Medium Access Control Protocols with Fast Collision Resolution for Wireless Local Area Networks*. Serving as the main adviser with Dr. Haniph Latchman as the co-adviser. Won **The IEEE TCGN Best Paper Award** for the paper "Fast Collision Resolution (FCR) MAC Algorithm for Wireless Local Area Networks" (Younggoo Kwon, Yuguang Fang and Haniph Latchman) in *IEEE High-Speed Networks Symposium, IEEE Globecom'2002*, Taipei, Taiwan, 2002 (given by The **IEEE ComSoc Technical Committee on Gigabit Networking (TCGN)**).

6.2 University Services

- Serving on the Search Committee for Semmoto Chair Professorship, Spring 2017.
- Serving on the Search Committee for Intel Chair in IT, Fall 2011-Spring 2015.
- Serving on the ECE Webpage Redesign Committee, Fall 2011.
- Serving on Faculty Development Committee, Department of Electrical and Computer Engineering, University of Florida, Fall 2007- Fall 2011.

- Serving on College of Engineering Faculty Strategic Hiring Committee on Information Technology, January 2011-December 2011.
- Served on the review panel for *Physical Sciences Review Panel for the Research Opportunity Fund*, University of Florida, March 2011.
- Mentor for Assistant Professor **Liuqing Yang**, 2009-2011.
- Served on the Advisory Committee for the Department Chair, Department of Electrical and Computer Engineering, University of Florida, August 2003-August 2009.
- Elected to serve as a member of the College of Engineering Tenure and Promotion Board, Fall 2005-Summer 2008.
- Served on the Graduate Admission and Aid Committee, Department of Electrical and Computer Engineering, University of Florida, Fall 2003-Spring 2007.
- Mentor for Assistant Professor **Dapeng Wu**, 2003-2008.
- Served on the Faculty Search Committee, Department of Electrical and Computer Engineering, University of Florida, 2003-2004.
- Served on the Department Chair Search Committee, Department of Electrical and Computer Engineering, University of Florida, 2002-2003.
- Served on the Faculty Search Committee, Department of Electrical and Computer Engineering, University of Florida, 2002-2003.
- Served on the Faculty Search Committee (Senior Faculty in Communications), Department of Electrical and Computer Engineering, University of Florida, 2001-2002.
- Served on the Faculty Search Committee, Department of Electrical and Computer Engineering at New Jersey Institute of Technology, 1998-1999, 1999-2000.

6.3 International Academic Services

- Overseas Academic Master, Dalian University of Technology, Dalian, China, May 2016-present.
- Member of Academic Advisory Committee of the School of Information Science and Technology, Jinan University, Guangzhou, China, January 2016-present.
- CAS Overseas Academic Experts, Chinese Academy of Sciences, 2013-present.
- Overseas Adviser to the Dean, School of Information Science and Technology, Southwest Jiao Tong University, Chengdu, Sichuan, June 2014-present.
- External Program Evaluator, Electrical and Computer Engineering Programs (PhD, MASc, MEng), Ryerson University, February 2015.
- Vice-Chair, The 111 Program for Modern Wireless Information Network Technology, Xidian University, Xi'an, China, 2008-2013.
- External Academic Adviser, Department of Computing, Hong Kong Polytechnic University, Hong Kong, 2008-2012.
- External Program Examiner, Chinese University of Hong Kong, Hong Kong, 2008-2010.

7 PROFESSIONAL ACTIVITIES

7.1 Membership

- Fellow of the *IEEE* (S'92-M'97-SM'99-F'08).
 - IEEE Communication Society
 - IEEE Computer Society
 - IEEE Vehicular Systems Society
- Member of the *ACM* (M'99).
 - ACM Special Interest Group in Mobility of Systems, Users, Data and Computing (ACM Sig-Mobile)
 - ACM Special Interest Group in Communications (ACM SigComm)
- Fellow of the American Association for the Advancement of Science (AAAS) (M'11-F'15).

7.2 Committee Activities

- VTS VP Publications Advisory Committee, IEEE Vehicular Technology Society, January 2016-present.
- IEEE WTC Award Committee (Ad Hoc Member), Technical Committee on Wireless Communications (WTC), IEEE Communications Society, 2015, 2016.
- Standing Committee (Awards Committee), IEEE Communications Society, January 2015-December 2017.
- IEEE Fellow Evaluation Committee, IEEE Computer Society, 2013-2015.
- Chair of IEEE Gainesville Section, December 2003-December 2005.
- Vice-Chair of IEEE Gainesville Section, December 2001-December 2003.
- Member of the Board of Directors for the *Chinese Association for Science and Technology, USA (CAST)*, November 1999-December 2002.

7.3 Editorship

- *ACM Computing Surveys*, **Associate Editor**, January 2017-present.
- *IEEE Transactions on Vehicular Technology*, **Editor-in-Chief**, April 2013-June 2017.
- *IEEE Wireless Communications*, **Advisory Board**, February 2012-present; **Editor-in-Chief**, February 2009-February 2012; **Technical Editor**, January 2003-January 2009; **Feature editor** for *Scanning the Literature*, January 2002-April 2003; **Feature editor** for *Scanning the Literature*, formerly *IEEE Personal Communications*, April 2000-December 2001.
- *IEEE Network*, **Editor**, May 2012-present.
- *IEEE Transactions on Mobile Computing*, **Editor**, January 2011-December 2016; November 2003-January, 2008; **Member of Steering Committee**, January 2008-December 2010.
- *IEEE Transactions on Wireless Communications*, **Editor**, January 2002-January 2009.
- *IEEE Transactions on Communications*, **Editor**, May 2000-January 2012.

- *IEEE Journal on Selected Areas in Communications: Wireless Communications Series*, **Editor**, May 1999-December 2001. This journal was then spun off into *IEEE Transactions on Wireless Communications* in January 2002 with which I continue to serve as an editor.
- *Wireless Networks (WINET)*, **Editor**, April 2001-March 2013.
- *ACM Mobile Computing and Communications Review*, **Area editor**, September 1998-December 2003.
- *Wiley International Journal on Wireless Communications and Mobile Computing (WCMC)*, **Editor**, September 2000-January 2004.
- *ETRI Journal*, Electronics and Telecommunications Research Institute, Korea, **Editor**, March 2011-March 2013.
- *Journal of Communications and Information Networks*, **Editor**, May 2015-present.
- *Tsinghua Science and Technology*, **Editor**, January 2011-present.
- *ICST Transactions on Ubiquitous Environments*, **Advisory Board**, May 2011-present.
- *Journal of Communications (JCM)*, Academy Publisher, Oulu, Finland, **Advisory Board**, November 2008-present.
- *Journal of Computer Science and Technology (JCST)*, **Editor**, November 2006-December 2009.
- Leading Guest editor (with Sherman Shen) for Special Issue on Quality of Service in Heterogeneous Wired/Wireless Networks, *Wireless Networks*, June 2007.
- Leading Guest editor (with Sherman Shen and Shigang Chen) for Special Section on Cross-layer Design for Mobile Ad Hoc Networks and Wireless Sensor Networks, *IEEE Transactions on Vehicular Technology*, May 2006.
- Leading Guest editor (with Phone Lin and Yi-Bing Lin) for Special Issue on Mobility and Resource Management, *IEEE Wireless Communications Magazine*, 2003-2004.

7.4 Conference Organization

7.4.1 Executive Committee

- **General Co-Chair**, *IEEE/CIC International Conference on Communications in China (ICCC)*, Qingdao, Shandong, China, 18-20, 2017.
- **Program Co-Chair** of Technical Program Committee, *Wireless and Optical Communications Conference (WOCC)*, Chengdu, Sichuan, China, May 21-23, 2016.
- **International Advisory Committee**, *Biennial International Conference on Control, Measurement and Instrumentation*, IEEE Joint Control Systems and Instrumentation & Measurement Society (CSS-IMS) Chapter, IEEE Kolkata Section, India, January 2016.
- **International Advisory Committee**, *TENSYMP'2015*, IEEE Region 10 (Asia-Pacific) Spring conference, Ahmedabad, India, 13-15 May, 2015.
- **Program Co-Chair** of Technical Program Committee, *the 2014 International Conference on Wireless Communications and Signal Processing (WCSP 2014)*, Hefei, China, October 23-25, 2014.
- **International Advisory Committee**, *The First IEEE Conference on Communications and Network Security (CNS'2013)*, Washington D.C., USA, October 14-16, 2013.

- **Panel Co-Chair**, *The first IEEE International Conference on Communications in China (ICCC2012)*, Beijing, China, August 15-17, 2012. Also served as Panel Organizer and Moderator for panel: *Future Research Directions on Communications Technologies*.
- **Program Co-Chair** of Technical Program Committee, *the IEEE International Conference on Computer Communications (INFOCOM'14)*, Toronto, Canada, 2014.
- **Advisory Board**, *the IEEE Symposium on Personal, Indoor, Mobile & Radio Communications (PIMRC)*, 2011.
- **Co-Founder** and **Co-Chair** for the Steering Committee for *International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine)*, 2004-2008.
- **Co-Chair for Wireless and Mobile Computing Track**, IEEE International Symposium on Personal, Indoor & Mobile Radio Communications (PIMRC), Palais des Festivals, Cannes, France, September 14-18, 2008.
- **General Chair** for *Second International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine'05)*, Orlando, Florida, August 2005.
- **Vice-Chair** of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'05)*, Miami, Florida, 2005.
- **Vice General Chair** for *First International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine'04)*, Dallas, Texas, October 2004.
- **Program Co-Chair** for Global Internet and Next Generation Networks Symposium, *IEEE Globecom'2004*, Dallas, Texas, Nov.29-Dec.3, 2004.
- **Chair** for Symposium on MAC Protocol for Wireless Networks and Member of Technical Program Committee for *IEEE Vehicular Technology Conference (VTC'2003 Fall)*, Orlando, Florida, September 2003.
- **Chair** of the Publicity Committee for *SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS'2003)*, Montreal, Canada, July 20-24, 2003.
- **Co-chair** of Committee for Student Travel Grant, the *Eighth Annual International Conference on Mobile Computing and Networking (MobiCom'2002)*, Atlanta, Georgia, September 2002.
- **Chair** of the Publicity Committee for *SCS International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS'2002)*, San Diego, CA, USA, July 14-18, 2002.
- **Vice-Chair** of Technical Program Committee for *IEEE Wireless Communications and Networking Conference (WCNC'00)*, Chicago, Illinois, September 2000.
- **Registration Chair** and **Session Chair** for *1999 US-China Conference on High-Tech Industry Development and Business Opportunities*, Sheraton Hotel at Newark International Airport, New Jersey, April 12-13, 1999.
- **Vice-Chair** of Technical Program Committee for *the 1998 International Conference on Computer Communications and Networks (IC3N'98)*, Lafayette, Louisiana, October 1998.

7.4.2 Technical Program Committee (Selected)

- Member of the Technical Program Committee for *The 37th IEEE International Conference on Distributed Computing Systems (ICDCS'17)*, Atlanta, USA, June 5-8, 2017.
- **Area TPC Chair** of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'15)*, Hong Kong, April 26-April 30, 2015.
- Member of the Technical Program Committee for *IEEE International Workshop on Security and Privacy of Mobile, Wireless and Sensor Networks* in conjunction with *IEEE SECON'2013*, New Orleans, LA, June 23, 2013.
- **Area TPC Chair** of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'13)*, Turin, Italy, April 14-19, 2013.
- Member of the Technical Program Committee for the *3rd IEEE International Workshop on Data Security and Privacy in Wireless Networks* in conjunction with *IEEE WoWMoM'2012*, San Francisco, CA, June 25, 2012.
- **Area TPC Chair** of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'12)*, Orlando, Florida, March 25-30, 2012.
- Member of the Technical Program Committee for the *3rd IEEE Vehicular Networking Conference (VNC' 2011)*, Amsterdam, Netherlands, November 14-16, 2011.
- Member of the Technical Program Committee for the *2nd IEEE International Workshop on Data Security and Privacy in Wireless Networks* in conjunction with *IEEE WoWMoM'2011*, Lucca, Italy, June 20, 2011.
- **Area TPC Chair** of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'11)*, Shanghai, China, April 11-15, 2011.
- Member of the Technical Program Committee for *IEEE IEEE Vehicular Networking Conference (VNC'2010)*, Jersey City, New Jersey, USA, December 13-15, 2010.
- **Area TPC Chair** of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'10)*, San Diego, CA, March 15-19, 2010.
- **Area TPC Chair** of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'09)*, Rio de Janeiro, Brazil, April 19-25, 2009.
- Member of the Technical Program Committee for *The 10th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc'2009)*, New Orleans, Louisiana, USA, May 18-21, 2009.
- Member of the Technical Program Committee for *Symposium on Wireless Networking, IEEE International Conference on Communications (ICC'2008)*, Beijing, China, 19-23 May, 2008.
- Member of the Technical Program Committee for *The 9th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc'2008)*, Hong Kong, China, May 26-30, 2008.
- Member of Technical Program Committee for *International Conference on Circuits and Systems for Communications (ICCSC)*, Shanghai, China, May 26-28, 2008.
- Member of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'08)*, Phoenix, Arizona, April 13-19, 2008.

- Member of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'07)*, Anchorage, Alaska, May 6-12, 2007.
- Member of Technical Program Committee for *the 4th ACM Workshop on Security of Ad-Hoc and Sensor Networks (SASN'06)*, in conjunction with the *13th ACM Conference on Computer and Communications Security (CCS '06)*, Alexandria, Virginia, October 30-November 3, 2006.
- Member of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'06)*, Barcelona, Spain, April 23-29, 2006.
- Member of Technical Program Committee for 2006 IEEE International Conference on Networking, Sensing and Control (ICNSC'2006), Ft. Lauderdale, Florida, USA, April 23-25, 2006.
- Member of Technical Program Committee for *the 25th IEEE International Performance, Computing, and Communications Conference (IPCCC'2006)*, Pheonix, AZ, April 10-12, 2006.
- Member of Technical Program Committee for *IEEE International Symposium on Personal, Indoor & Mobile Radio Communications (PIMRC'2005)*, Berlin, Germany, September 11-14, 2005.
- **Program Co-Chair** for Global Internet and Next Generation Networks symposium, *IEEE Globecom'2004*, Dallas, Texas, Nov.29-Dec.3, 2004.
- Member of Technical Program Committee for *IEEE International Symposium on Personal, Indoor & Mobile Radio Communications (PIMRC'2004)*, Barcelona, Spain, September 5-8, 2004.
- Member of Technical Program Committee for *the First International Conference on E-Business and Telecommunications (ICETE'04)*, Setubal, Portugal, August 25-28, 2004.
- Member of Technical Program Committee for *the 23rd IEEE International Performance, Computing, and Communications Conference (IPCCC'2004)*, Pheonix, AZ, April 15-17, 2004.
- Member of Technical Program Committee for *IEEE Wireless Communications and Networking Conference (WCNC'04)*, Atlanta, Georgia, March 2004.
- Member of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'04)*, Hong Kong, China, 2004.
- Member of Technical Program Committee for *IEEE Globecom'2004*, Dallas, Texas, Nov.29-Dec.3, 2004.
- Member of Technical Program Committee for *High Speed Networks Symposium in IEEE International Conference on Communications (ICC'2004)*, Paris, France, June 20-24, 2004.
- Member of Technical Program Committee for *The 24th IEEE International Conference on Distributed Computing Systems(ICDCS'2004)*, Tokyo, Japan, March 23-26, 2004.
- Member of Technical Program Committee for *Next Generation Networks and Internet, IEEE Globecom'2003*, San Francisco, CA, December 1-5, 2003.
- Member of Technical Program Committee for *The First ACM International Workshop on Wireless Mobile Applications and Services on WLAN Hotspots* (in conjunction with ACM MobiCom'2003), San Diego, CA, September 19, 2003.
- Member of Technical Program Committee for *IEEE International Symposium on Personal, Indoor & Mobile Radio Communications (PIMRC'2003)*, Beijing, China, September 7-10, 2003.

- Member of Technical Program Committee for the Posters in *The Fourth ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc'2003)*, Annapolis, Maryland, June 2003.
- Member of Technical Program Committee for *the IEEE International Conference on Computer Communications (INFOCOM'03)*, San Francisco, California, 2003.
- Member of Technical Program Committee for *the 22nd IEEE International Performance, Computing, and Communications Conference(IPCCC'2003)*, 2003.
- Member of Technical Program Committee for *IEEE Vehicular Technology Conference (VTC'2002, Fall)*, Vancouver, British Columbia, Canada, September 2002.
- Member of Technical Program Committee for *IEEE Wireless Communications and Networking Conference (WCNC'02)*, Orlando, Florida, March 2002.
- Member of Technical Program Committee for *the High Speed Networks*, Part of *the IEEE Globecom'2002*, Taipei, Taiwan, November 2002. Also serving as a **session chair**.
- Session Co-Chair for special long paper poster sessions (three day events), *IEEE Military Communications Conference (MilCom'2001)*, Vienna, Virginia, October 2001.
- Member of Technical Program Committee for *the Seventh Annual International Conference on Mobile Computing and Networking (MobiCom'2001)*, Rome, Italy, July 2001.
- Member of Technical Program Committee for *the 19th IEEE International Conference on Computer Communications (INFOCOM'00)*, Tel-Aviv, Israel, March 2000.
- Member of Technical Program Committee for *the IEEE Wireless Communications and Networking Conference (WCNC'99)* (the expanded version of ICUPC), New Orleans, Louisiana, September 1999. Session co-organizer for *Teletraffic Aspects and Resource Allocation in Wireless Networks I* and *II*.
- Member of Technical Program Committee for *the 17th IEEE International Conference on Computer Communications (INFOCOM'98)*, San Francisco, California, 1998.
- Member of Technical Program Committee for *the First International Workshop on Wireless and Mobile Multimedia (WOW-MOM'98)* in conjunction with *ACM/IEEE MobiCom'98*, Dallas, Texas, October, 1998.

7.5 Professional Advisory Board Member and Evaluator

External Advisory Board

- External Advisory Board, Center for Research on Complex Networks (CRCN), an NSF Center of Research Excellence in Science and Technology (CREST), Texas Southern University (TSU), 2011-present.

External Evaluator of International Academic Programs

- A member of the Peer Review Team (PRT), Periodic Review of the Ryerson University Electrical and Computer Engineering (PhD, MAsC, MEng), February 23-24, 2015.
- A member of the Departmental Review Panel, Department of Computing, Hong Kong Polytechnic University, Hong Kong, China, 2008-2011.
- Overseas Academic Adviser, Department of Computing, Hong Kong Polytechnic University, Hong Kong, China, 2010-2011.

- External Programme Evaluator, Department of Information Engineering, City University of Hong Kong, Hong Kong, China, 2007-2009.
- External Program Evaluator, Department of Electronic Engineering, Shanghai Jiao Tong University, Shanghai, China, 2009-present.

Panelist and Proposal Reviewer

- Active participating in proposal evaluation for funding agencies nationally and internationally.

8 INVITED TALKS AND SEMINARS

8.1 Keynote and Distinguished Talks/Seminars

- “Cognitive Capability Harvesting (CCH): A Collaborative Network Design,” **Distinguished Keynote Speech**, “IEEE Fellows in BUPT” Series, Faculty Development Center in BUPT, Beijing University of Posts & Telecommunications, Beijing, China, June 5, 2017.
- “Cognitive Capability Harvesting (CCH): A Collaborative Network Design,” Keynote Speaker, *Wuhan Forum on Communications and Networking*, Huazhong University of Science and Technology, Wuhan, China, May 16, 2017.
- “Cognitive Capability Harvesting (CCH): A Collaborative Network Design,” Keynote Speaker, *Communications and Networking Summit*, Wuhan University, Wuhan, China, May 15, 2017.
- “Cognitive Capability Harvesting (CCH): A Collaborative Network Design,” Keynote Speaker, , *ACM Turing*, Shanghai, China, May 12, 2017.
- “Cognitive Capability Harvesting (CCH): A Collaborative Network Design,” Keynote Speaker, , Tongji University, Shanghai, China, May 11, 2017.
- “Connected Things for Information, Communications, Computing, and Control (ICCC),” Keynote Speaker, *Future Industrial Internet Summit*, Beijing University of Technology, Beijing, China, December 12, 2016.
- “Connected Things for Information, Computing, and Control,” Plenary Talk, *First International Workshop on Cybersecurity and Computing*, Chengdu, China, October 14-15, 2016.
- “Connected Things for Information, Computing, and Control,” Plenary Talk, *International Workshop on Future Network Computing*, Changsha, China, October 12-13, 2016.
- “Publish Papers in IEEE Transactions: Things You Need to Know,” Panel Presentation, *Young Professional Workshop, IEEE Vehicular Technology Conference*, Montreal, Canada, September 19, 2016.
- “Connected Things: Enabling Technologies for Information, Intelligence, and Decision Making,” Keynote Speaker, *The Future 5G on Wireless Communications and Networking Big Data (FWCN 2016)*, Jilin University, Jilin, China, August 9, 2016.
- “Enabling Connected Things for Information, Intelligence and Control,” Distinguished Lecture, *2016 Distinguished Lecture Series*, School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, April 21, 2016.
- “What Rate Do We Care? A Revisit to Cross-layer Design,” Plenary Talk, *2015 International Workshop on Advances in Information Coding and Wireless Communications(AICWC’2015)*, Chengdu, China, October 19-20, 2015.

- “A Collaborative Design of Spectrum Harvesting Networks,” Keynote, *The 7th International Conference on Wireless Communications and Signal Processing (WCSP)*, Nanjing, China, October 15-17, 2015.
- “What Rate Do We Care? A Revisit to Cross-layer Design Philosophy,” Plenary Talk, *2015 NUPT Forum on Wireless Communications and Networking*, Nanjing University of Posts and Telecommunications, Nanjing, China, October 14, 2015.
- “Cognitive Radio Networks: Design Challenges and Potential Solutions,” Plenary Talk, *2015 Workshop on New Frontiers in Control, Communications, and Computing (NFC³)*, Qinhuandao, Hebei, China, August 17-18, 2015.
- “Cognitive Radio Networks: Design Challenges and Potential Solutions,” Keynote, *The 10th EAI International Conference on Communications and Networking in China (ChinaCom’15)*, Shanghai, China, August 15-17, 2015.
- “Modeling, Theory and Practice: Lessons Learned,” Plenary Talk, *2015 BBC³R Workshop on Communications, Computing and Control*, Dalian Maritime University, Dalian, China, June 26-28, 2015.
- “Cloud-assisted Mobile Health Systems,” Keynote Speaker, *Networking and Security Summit*, School of Computer Science, Wuhan University, China, 06/18-06/19/2015.
- “Tackling Security and Privacy Problems in Social Networks,” Plenary Talk, Lecture Series on Information Security and Privacy in Social Networks and Cloud Computing, The Croucher Foundation Advanced Study Institute, Hong Kong, China, December 2-4, 2014.
- “Self-organizing Cognitive Architecture for Collaborative Communications Networks,” Plenary Talk, *2014 International Workshop on Advances in Information Coding and Wireless Communications (AICWC’2014)*, Chengdu, China, 28-30 October, 2014.
- “How to Effectively Utilize the Harvested Resource in Cognitive Radio Networks,” Keynote, *IEEE ICC*, Xi’an, China, 12-14 August, 2013.
- “How to Effectively Utilize the Harvested Resource in Cognitive Radio Networks,” Keynote, *The 8th International Conference on Wireless Algorithms, Systems, and Applications (WASA’13)*, Zhangjiajie, China, 7-10 August, 2013.
- “Security and Network Performance for Wireless Ad Hoc Networks,” Keynote, *The 15th International Symposium on Wireless Personal Multimedia Communications (WPMC’2012)*, Taipei, Taiwan, September 24-27, 2012.
- “A Few Selected Research Issues in Wireless Network Modeling, Analysis and Design,” Keynote, *The 30th IEEE International Performance Computing and Communications Conference (IPCCC’2011)*, Orlando, Florida, USA, November 17-19, 2011.
- “Securing Wireless Ad Hoc Networks: An ID-Based Cryptographic Approach,” Distinguished Invited Speaker (Plenary Talk), *The 18th International Conference on Computer Communications and Networks (IC³N)*, San Francisco, CA, August 3-6, 2009.
- “Securing Wireless Ad Hoc Networks: An ID-Based Cryptographic Approach,” Lecture Series from Academicians, Changjiang Scholars, and Distinguished Young Researchers, Beihang University, Beijing, China, June 9, 2009.
- “Medium Access Control Protocols for Mobile Ad Hoc Networks,” **Invited-Speaker Series**, Graduate Colloquium, Department of Electrical Engineering and the Graduate School, Northern Illinois University, October 12, 2007.

- “Securing Wireless Sensor Networks,” **Distinguished Invited Talk**, China 973 Wireless Sensor Network Laboratory and Self-organization Network and Network Computing Center, Shanghai Jiao Tong University, Shanghai, China, June 11, 2007.
- “Medium Access Control Protocols for Mobile Ad Hoc Networks,” Seminar Series of Program 111 Sponsored by Ministry of Education of China, Institute of Wireless Communications and Technology and **Shanghai Key Laboratory** of Media Processing and Transmission, Shanghai Jiao Tong University, June 4, 2007.
- “Securing Wireless Networks with Resource-Constrained Devices,” **Distinguished Visitor Lecture**, School of Computing and Informatics, Arizona State University, February 12, 2007.

8.2 Panelist

- Panelist, “Pressing Theoretical Challenges in Wireless Networking,” *ACM Mobihoc*, June 22-25, 2015, Hangzhou, Zhejiang, China.
- Panelist, “Future Research Direction on Wireless Algorithms and Applications,” *The 9th International Conference on Wireless Algorithms, Systems, and Applications (WASA’2014)*, June 23-25, 2014, Harbin, China.

8.3 Invited Talks

- Frequently give invited talks at various national and international institutions.

9 PATENTS

1. **Y. Fang** and B. Kim, “Channel estimation and synchronization with preamble using polyphase code,” US Patent No. #7,453,794 (Issued on 11/18/2008).
2. **Y. Fang** and B. Kim, “Multilayer differential phase shift keying with bit-interleaved coded modulation and OFDM,” US Patent No. #7,324,613 (Issued on 01/29/2008).

10 PUBLICATIONS

The citation information is as follows (as of September 18, 2017): (1) Google Scholar: **18,553** citations with h-index **74** and with **43** papers cited no fewer than 100 times each; (2) Web of Science Scientific Citation Index: **5,964** citations with h-index **43** and with **34 papers** cited no fewer than 50 times each.

10.1 Books

1. Y. Guo, **Y. Fang** and P.P. Khargonekar, *Stochastic Optimization for Distributed Energy Resources in Smart Grids*, In Press, Springer, 2017.
2. M. Pan, M. Li, P. Li and **Y. Fang**, *Spectrum Trading in Multi-hop Cognitive Radio Networks*, Springer, 2015.

10.2 Book Chapters

1. X. Li, H. Ding, **Y. Fang**, M. Pan, P. Li, X. Huang, Y. Sun and S. Glisic, “Collaborative Spectrum Trading and Sharing for Cognitive Radio Networks,” in: *Handbook of Cognitive Radios*, edited by Wei Zhang, Springer, 2017.
2. J. Sun, X. Zhu and **Y. Fang**, “Security and privacy for mobile health-care (m-Health) systems,” in: *Handbook on Securing Cyber-Physical Critical Infrastructure*, edited by Sajal Das, Krishna Kant and Nan Zhang, Morgan Kaufmann, January 2012.

3. Y. Zhou and **Y. Fang**, “Network security and attack defense,” in: *Wireless Sensor Networks: A Networking Perspective*, edited by Jun Zheng and Abbas Jamalipour, John Wiley and Sons, Inc., September 2009.
4. X. Huang, **Y. Fang**, P.M. Pardalos, “Optimization in ad hoc networks,” in: *Encyclopedia of Optimization*, 2nd edition, edited by Christodoulos A. Floudas and Panos. M. Pardalos, pp. 2764-2774, Springer, 2009.
5. Y. Zhou, Y. Zhang and **Y. Fang**, “Key management in wireless sensor networks: challenges and solutions,” in: *Resource, Mobility and Security Management in Wireless Networks and Mobile Communications*, edited by Y. Zhang, H. Hu and M. Fujise, Auerbach Publications, Taylor and Francis Group, Boca Raton, Florida, pp. 445-476, 2007.
6. X. Chen, W. Liu and **Y. Fang**, “Resource allocation and call admission control in mobile wireless networks,” in: *Algorithms and Protocols for Wireless and Mobile Networks*, edited by A. Boukerche, Chapman & Hall/CRC Press, Boca Raton, FL, pp.439-458, 2006.
7. H. Zhai and **Y. Fang**, “Medium access control protocols in mobile ad hoc networks: problems and solutions,” in: *Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless and Peer-to-Peer Networks (Proceedings of International Workshop on Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless and Peer-to-Peer Networks, Fort Lauderdale, FL, February 20 and 21, 2004)*, edited by J. Wu, pp. 231-250, Auerbach Publications, Taylor & Francis Group, Boca Raton, Florida, 2006.
8. A. Avudainayagam, J.M. Shea, T.F. Wong and **Y. Fang**, “Cooperative diversity techniques in wireless communications,” in: *Ad Hoc and Sensor Networks*, edited by Y. Xiao and Y. Pan, Nova Science Publishers, 2005.
9. X. Chen, H. Zhai, J. Wang and **Y. Fang**, “A survey on improving TCP performance over wireless networks,” in: *Resource Management in Wireless Networking (Springer Network Theory and Applications Series, Vol. 16)*, edited by M. Cardei, I. Cardei and D.-Z. Du, pp. 657-695, Kluwer Academic Publishers/Springer, 2005.
10. **Y. Fang** and W. Ma, “Mobility management for wireless networks: modeling and analysis,” in: *Wireless Communications Systems and Networking*, edited by M. Guizani, pp.473-512, Kluwer Academic/Plenum Publishers, New York, 2004.
11. W. Lou and **Y. Fang**, “A survey on wireless security in mobile ad hoc networks: challenges and possible solutions,” in: *Ad Hoc Wireless Networking (Springer Network Theory and Applications Series, Vol. 14)*, edited by X. Chen, X. Huang and D.-Z. Du, Kluwer Academic Publishers/Springer, 2004.

10.3 Papers in Refereed Magazines

1. H. Ding, C. Zhang, Y. Cai and **Y. Fang**, “Smart cities on wheels: a newly emerging vehicular cognitive capability harvesting network for data transportation,” Accepted for publication in *IEEE Wireless Communications*.
2. H. Song, L. Yan, X. Fang and **Y. Fang**, “Control/user plane decoupled architecture utilizing unlicensed bands in LTE systems,” Accepted for publication in *IEEE Wireless Communications*.
3. H. Ding, **Y. Fang**, X. Huang, M. Pan, P. Li, S. Glisic, “Cognitive capacity harvesting networks: architectural evolution towards future cognitive radio networks,” *IEEE Communications Surveys and Tutorials*, vol.19, no.3, pp.1902-1923, Third Quarter 2017.

4. B. Lorenzo, F. J. Gonzalez-Castano and **Y. Fang**, "A novel collaborative cognitive dynamic network architecture," *IEEE Wireless Communications*, vol.24, no.1, pp.74-81, February 2017.
5. H. Song, X. Fang and **Y. Fang**, "mmWave network architectures for future high-speed railway communications: challenges and solutions," *IEEE Wireless Communications*, vol.23, no.6, pp.114-122, December 2016.
6. L. Yan, X. Fang and **Y. Fang**, "Control and data signaling decoupled architecture for railway wireless networks," *IEEE Wireless Communications*, vol.22, no.1, pp.103-111, February 2015.
7. P. Lin, P.-C. Chung and **Y. Fang**, "P2P-iSN: a peer-to-peer architecture for heterogeneous social networks," *IEEE Network*, vol.28, no.1, pp.56-64, January/February 2014.
8. C. Zhang, J. Sun, X. Zhu and **Y. Fang**, "Privacy and security for online social networks: challenges & opportunities," *IEEE Network*, vol.24, no.4, pp.13-18, July/August 2010.
9. J. Sun, **Y. Fang** and X. Zhu, "Privacy and emergency response in e-healthcare leveraging wireless body sensor networks," *IEEE Wireless Communications*, vol.17, no.1, pp.66-73, February 2010.
10. **Y. Fang**, X. Zhu and Y. Zhang, "Securing resource-constrained wireless ad hoc networks," *IEEE Wireless Communications*, vol.16, no.2, pp.24-29, 2009.
11. Y. Zhou, Y. Zhang and **Y. Fang**, "Securing wireless sensor networks: a survey," *IEEE Communications Surveys and Tutorials*, Vol.10, No.3, pp.6-28, 3rd Quarter 2008.
12. R. Riggio, D. Miorandi, I. Chlamtac, N. Scalabrino, E. Gregori, F. Granelli and **Y. Fang**, "Hardware and software solutions for wireless mesh network testbeds," *IEEE Communications Magazine*, pp.156-162, June 2008.
13. Y. Zhou and **Y. Fang**, "Multimedia broadcast authentication based on batch signature," *IEEE Communications Magazine*, Vol.45, No.8, pp.72-77, August 2007.
14. H. Zhai, J. Wang and **Y. Fang**, "Providing statistical QoS guarantee for voice over IP in the IEEE 802.11 wireless LANs," *IEEE Wireless Communications* (Special Issue on Voice over Wireless LANs), Vol.13, No.1, pp.36-43, February 2006.

10.4 Papers in Refereed Journals

1. P. Zhou, X. Fang, **Y. Fang**, Y. Long, R. He and X. Han, "Enhanced random access and beam training for mmWave wireless local area networks with high user density," Accepted for publication in *IEEE Transactions on Wireless Communications*.
2. Y. Guo, M. Pan, Y. Gong and **Y. Fang**, "Dynamic multi-tenant coordination for sustainable colocation data centers," Accepted for publication *IEEE Transactions on Cloud Computing*.
3. L. Yan, X. Fang and **Y. Fang**, "A staggered handover scheme for 5G C/U-plane decoupled heterogeneous railway wireless networks," Accepted for publication *IEEE Transactions on Intelligent Transportation Systems*.
4. Y. Gong, C. Zhang, **Y. Fang** and J. Sun, "Protecting location privacy for task allocation in ad hoc mobile cloud computing," Accepted for publication in *IEEE Transactions on Emerging Topics in Computing*.

2017

5. L. Yan, X. Fang, **Y. Fang** and X. Cheng, "Dual-scheduler design for C/U-plane decoupled railway wireless networks," *IEEE Transactions on Mobile Computing*, vol.16, no.7, pp.1842-1855, July 2017.
6. M. Chen, S. Chen and **Y. Fang**, "Lightweight anonymous authentication protocols for RFID Systems," *IEEE/ACM Transactions on Networking*, vol.25, no.3, pp.1475-1488, June 2017.
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10.5 Papers in Refereed Conferences:

2017

1. D. Han, W. Chen, B. Bai and **Y. Fang**, "On outage of wireless cloud computing: offloading optimization and bottleneck analysis," *IEEE Globecom*, Singapore, December 4-8, 2017.

2. K. Niu, L. Wei, C. Zhang, J. Liu and **Y. Fang**, "An anonymous and accountable authentication scheme for Wi-Fi hotspot access with the bitcoin blockchain," *2017 IEEE/CIC International Conference on Communications in China (ICCC)*, Qingdao, China, October 22-24, 2017.
3. B. Feng, J. Liu, C. Zhang and Y. Fang, "Communication through symbol silence: towards free control messages in indoor WLANs," *The 37th IEEE International Conference on Distributed Computing (ICDCS'2017)*, Atlanta, GA, USA, June 5-8, 2017.

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1. Y. Gong, C. Zhang, Y. Hu and **Y. Fang**, "Privacy-preserving genome-aware remote health monitoring," *IEEE Global Communications Conference (Globecom)*, Washington, DC, December 4-8, 2016.
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4. B. Feng, C. Zhang and **Y. Fang**, "DSN: enabling lightweight coordination between partially overlapped channels in wireless LANs," *IEEE Global Communications Conference (Globecom)*, Washington, DC, December 4-8, 2016.
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6. J. Liu, C. Zhang, H. Ding, H. Yue and **Y. Fang**, "Policy-based privacy-preserving scheme for primary users in database-driven cognitive radio networks," *IEEE Global Communications Conference (Globecom)*, Washington, DC, December 4-8, 2016.
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16. Y. Guo, Y. Gong, **Y. Fang** and P. Khargonekar, "Stochastic minimization of imbalance cost for a virtual power plant in electricity markets," *The 5th Innovative Smart Grid Technologies Conference (ISGT)*, Washington, DC, February 19-22, 2014.

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