

Dr. Zhu Han

CONTACT INFORMATION

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University of Houston
Houston, TX 77004, USA

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E-mail: hanzhu22@gmail.com, zhan2@uh.edu
<http://www2.egr.uh.edu/~zhan2/>

HIGHLIGHT

29 graduated Ph.D. (including 7 females and 1 African American) and graduated 4 M.S., 4 former postdocs, and currently 12 Ph.D. students and 1 postdoc
IEEE Vehicular Technology Society 2022 Best Land Transportation Paper Award.

ACM Distinguished Speaker 2022-2025

2021 IEEE Kiyo Tomiyasu Award (IEEE Technical Field Awards), for outstanding early to mid-career contributions to technologies holding the promise of innovative applications, with the following citation: “For contributions to game theory and distributed management of autonomous communication networks.”

2020 AAAS Fellow for distinguished contributions to the field of game theory, particularly for modeling, analysis and algorithm design of new applications in communication networks

IEEE Distinguished Lecturer, 2015-2018

2016 IEEE Leonard G. Abraham Prize in the field of Communications Systems (Best Paper Award for IEEE Journal on Selected Areas on Communications)

2015 EURASIP Best Paper Award for Journal on Advances in Signal Processing

2014 IEEE Fellow for contributions to resource allocation and security in wireless communications

2011 IEEE Communications Society Fred W. Ellersick Prize (Best Paper Award for IEEE Wireless Communications Magazine)

2 Research Centers, 19 National Science Foundation (Career2010) and 1 MURI Awards
15 conference best paper awards

Award for Excellence in Research, Scholarship or Creative Activity, Twice, 2010–2011, 2014-2015, the highest in University, 2 winners per year

11 textbooks/1 edited book, all by Cambridge University Press

908 published/accepted transactions/magazines/letters, more than 600 conference papers, 15 research monograph books, 21 book chapters, and 3 patents

Web of Science top 1% Highly Cited Researcher in Computer Science Category since 2017

Google Scholar Citation >75,000 and **H index** 130

First Chinese in **Grand Slam Marathon Club** to Finish North Pole Marathon and Seven Marathons in Seven Continents (including Antarctica). Half Ironman Triathlon

EDUCATION

University of Maryland, College Park, Maryland, USA

Ph.D. in Electrical and Computer Engineering, November, 2003

M.S. in Electrical and Computer Engineering, May, 1999

Tsinghua University, Beijing, China

B.S. in Electronic Engineering, June, 1997

Major: Communication, Minor: English

Rank No. 7 in Tsinghua New Student Exam 1992

ACADEMIA
EMPLOYMENT

University of Houston, Houston, Texas, USA
John and Rebecca Moores Professor April, 2018 - Present
Full Professor in ECE Department September, 2015 - April 2018
Joint Appointment with CS Department
Director of Computer & Systems Engineering Program
Associate Professor in ECE Department August, 2012 - August, 2015
Assistant Professor in ECE Department August, 2008 - August, 2012

Boise State University, Boise, Idaho, USA
Assistant Professor in ECE Department August, 2006 - May, 2008

University of Maryland, College Park, Maryland, USA
Faculty Research Associate November, 2003 - June, 2006
Faculty Research Assistant November, 2002 - November, 2003
 Advisor: Professor K. J. Ray Liu.

University of Maryland, College Park, Maryland, USA
Graduate Research Assistant August, 1997 - June, 2000

INDUSTRY
EMPLOYMENT

JDS Uniphase Corporation (JDSU), Germantown, Maryland, USA
Electrical Engineer July, 2000 - November, 2002

Hughes Network Systems, Germantown, Maryland, USA
Summer Intern May 1998 - August, 1998

National Meteorology Center, Beijing, China
Summer Intern June, 1996 - July, 1997

GRANT

Research Centers

- U.S. Department of Transportation UTC Tier 1: Transportation Cybersecurity Center for Advanced Research and Education (CYBER-CARE)**, \$10,000,000.00 (Federal Funding) + \$5,000,000.00 (Match Funding), Feb, 2023 - Dec, 2027. Associate director for research, Co-PI at the Lead University - University of Houston, Other consortium partners: Embry-Riddle Aeronautical University, Rice University, Texas A&M University - Corpus Christi, University of Cincinnati, Cincinnati, University of Hawaii.
- U.S. National Science Foundation The IndustryUniversity Cooperative Research Brain Centers (IUCRC Brain)**, \$826,500.00, 2017-present, Senior Personnel, Other consortium partners: Arizona State University; Tecnolgico de Monterrey; Georgia Tech; West Virginia University; University of Maryland Baltimore County; Miguel Hernandez University of Elche.
- U.S. Army Research Laboratory SMART Hub**, \$5,000,000, 2023-2027, Communication area lead, collaboration with Baylor University, University of Denver, Temple University, Purdue University, Georgia Tech, and Kansas University.

Multidisciplinary University Research Initiative (MURI)

4. **CO-Principal Investigator** of “Advanced Mean-Field Game Theory for Complex Physical & Soci-Economical Systems,” collaborative with University of California at Los Angeles, Princeton University, and University of Maryland at College Park, Air Force Office of Scientific Research (AFOSR), 18RT0073, \$1,200,000 out of \$7,500,000, 2018-2023.

National Science Foundation Projects

5. **Principal Investigator** of “Collaborative Research: CISE-MSI: RPEP: CNS: Research Capacity and Partnerships Building in Next-Generation Communication Ecosystems with Vertical Intelligence,” collaborative with Prairie View A&M University and Texas Southern University, National Science Foundation, \$250,000, out of \$1,000,000, ECCS-2302469 2023-2026.
6. **Co-Principal Investigator** of “FW-HTF-R/Collaborative Research: FAIR4WISE: Future AI and Robotics for Women in Smart Engineering,” collaborative with University OF Tennessee, National Science Foundation, \$110,000, out of \$688,643, CMMI-2222810, 2022-2022.
7. **Principal Investigator** of “Collaborative Research: SWIFT: Nonlinear and Inseparable Radar And Data (NIRAD) Transmission Framework for Pareto Efficient Spectrum Access in Future Wireless Networks,” collaborative with University of Tennessee and the Princeton University, National Science Foundation, \$249,999, out of \$750,000, CNS-2128368, 2021-2024.
8. **Principal Investigator** of “Collaborative Research: CNS Core: Medium: Exploiting New Degrees-of-Freedom in Wireless Networks with Reprogrammable Intelligent Metagratings,” collaborative with University of California at Irvine and the City University of New York, National Science Foundation, \$399,997, out of \$1,200,000, CNS-2107216, 2021-2024.
9. **Principal Investigator** of “NeTS: Small: Collaborative Research: Hierarchical Framework with Distributed Resource Allocation for Mobile Fog Computing,” collaborative with University of North Carolina at Charlotte, National Science Foundation, \$249,999, out of \$500,000, CNS-1717454, 2017-2020.
10. **Principal Investigator** of “Collaborative Research: Energy-Efficient Heterogeneous Network Virtualization with Spectrum-Power Trading,” collaborative with Georgia Tech., National Science Foundation, \$200,000, out of \$500,000, CNS-1731424, 2017-2020.
11. **CO-Principal Investigator** of “WiFiUS: Collaborative Research: Ambient Re-Scatter Inspired Machine Type Communication for Heterogeneous IoT Systems,” collaborative with Aalto University, Finland, National Science Foundation, \$150,000, out of \$300,000, CNS-1702850, 2017-2019
12. **CO-Principal Investigator** of “CPS: Synergy: Collaborative Research: DEUS: Distributed, Efficient, Ubiquitous and Secure Data Delivery Using Autonomous Underwater Vehicles,” collaborative with Missouri University of Science and Technology, National Science Foundation, \$150,000, out of \$600,000, CNS-1646607, 2016-2019.

13. **Principal Investigator** of “EARS: Collaborative Research: Full-Duplex Cognitive Radio: A New Design Paradigm for Enhancing Spectrum Usage,” collaborative with Rice University, National Science Foundation, \$200,000, out of \$400,000, ECCS-1547201, %100 credit, 2015-2018. INTERN Supplementary Funding, \$28,205, 2018.
14. **Principal Investigator** of “Collaborative Research: WiFiUS: Heterogeneous Resource Allocation for Hierarchical Software-Defined Radio Access Networks at the Edge,” collaborative with Arizona State University, University of Oulu, VTT Finland, National Science Foundation, \$140,000, CCF-1456921, 2015-2017.
15. **Principal Investigator** of “Collaborative Research: Proactive Recovery of Electric Power Assets for Resiliency Enhancement (PREPARE)”, collaborative with University of Denver, National Science Foundation, CMMI-1434789, funded, \$249,999 out of a total of \$500,000, 2014-2017.
16. **Principal Investigator** of “EARS: Collaborative Research: Laying the Foundations of Social Network-Aware Cellular Device-to-Device Communications”, collaborative with University of Florida and Virginia Tech., National Science Foundation, CNS-1443917, funded, \$234,001 out of a total of \$680,000, 2015-2017.
17. **Principal Investigator** of “Collaborative Research: CCSS: D2D Wireless Networks: An Interference Nightmare or Resource Allocation Auspice,” collaborative with Georgia Tech, , National Science Foundation, ECCS-1405121, funded, \$185,000 out of a total of \$370,000, 2014-2017.
18. **Principal Investigator** of “EAGER: Collaborative Research: Joint Adaptation of Multiple Cognitive Systems without Explicit Coordination”, collaborative with Virginia Tech., National Science Foundation, CNS-1265268, funded, \$150,000 out of a total of \$500,000, 2013-2015.
19. **Principal Investigator** of “NeTS:Small:Toward Wireless Co-existence For Safety-critical Applications”, National Science Foundation, CNS-1117560, funded, \$300,000 out of a total of \$500,000, 2011-2014 (Co-PI at submission. Change to PI since original PI left).
20. **Principal Investigator** of “IHCS: Collaborative Research: Compressive Spectrum Sensing in Cognitive Radio Networks,” collaborative with Rice University, National Science Foundation, ECCS-1028782, funded, \$256,000 out of a total of \$500,000, 2010-2014.
21. **Principal Investigator** of “CAREER: Mutual Benefit in Cognitive Radio Networks: A Coalitional Game Framework,” Career Award, National Science Foundation, CNS-0953377, funded, \$416,000, 2010-2015.
22. **Principal Investigator** of “NeTS: Medium: Collaborative Research: Cooperative Beamforming for Efficient and Secure Wireless Communication,” collaborative with Drexel University, Princeton University, and Colorado School of Mines, National Science Foundation, CNS-0905556, NeTS, funded, \$150,000 out of a total of \$675,000, 2009-2012.
23. **Principal Investigator** of “Collaborative Research: Trusted Cooperative Transmission: Turning a Security Weakness into a Security Enhancement,” collaborative with the University of Rhode Island, National Science Foundation, CNS-0910461, Cyber Trust, funded, \$108,000 out of a total of \$216,000, 2008-2011.

Other Federal Projects

24. **Co-Principal Investigator** of “Distributed chemical sensing for sub-surface oil spill sensing”, U.S. Department of Interior - Minerals Management, funded, \$89,670 out of a total of \$896,700, 2014-2015.
25. **Co-Principal Investigator** of “Novel Sensor System for the Early Detection and Monitoring of Offshore Oil Spills”, Gulf of Mexico Research Initiative RFP-II, funded, GoMRI-030, \$112,500 out of a total of \$750,000, 2012-2015.
26. **Co-Principal Investigator** of “Reconfigurable Electronics and Non-Volatile Memory Research,” Air Force Office of Scientific Research, FA9453-8-2-0252, funded, \$100,000 out of a total of \$2,500,000, 2008-2010.

Industrial Projects

27. **Principal Investigator** of “Understanding Consumers Attention on Online Advertisements: An Ambulatory Eye-Tracking Study with Machine Learning Techniques,” Amazon Research Awards, 2021, \$100,000.
28. **Principal Investigator** of “Extended Reality-Assisted Connected Autonomous Vehicles with Edge Computing,” gift, Toyota, 2023, \$60,000.
29. **Principal Investigator** of “Resilient Edge Computing and Machine Learning for Connected Vehicles based on System Optimization and Wearable AR Devices,” gift, Toyota, 2021, \$60,000.
30. **Principal Investigator** of “Distributed Learning-assisted Scalable Data Transfer and Offloading for Connected Vehicles in Mobile Edge Computing,” gift, Toyota, 2021, \$60,000.
31. **Principal Investigator** of “Big Data Optimization and Machine Learning for Connected Vehicles with Edge Computing for 5G, 6G, and Beyond,” gift, Toyota, 2020, \$70,000.
32. **Principal Investigator** of “Low-cost Learning-assisted Resource Management for Connected Vehicles based on Mobile Edge/Fog Computing,” gift, Toyota, 2019, \$30,000.
33. **Principal Investigator** of “Resource Management for Mobile Edge Computing,” gift, Toyota, 2018, \$50,000.
34. **Principal Investigator** of “Hierarchical Architectural Design Alternatives based on Edge Computing for Connected Vehicles,” gift, Toyota, 2017, \$30,000.
35. **Principal Investigator** of “Deep Learning For Image Analytics In Energy Industry,” Chevron, 2017-2018, \$50,000.
36. **Co-Principal Investigator** of “Deep Transfer Learning Enabled Machine Vision Inspection and Its Applications in Exploration Geophysics,” Advanced Geophysical Technology Inc. 2017-2018, based on SBIR 1746824, \$45,000.
37. **Co-Principal Investigator** of “Video Analytics for Quantifying the Cuttings at Shale Shaker,” Shell, 2017-2018, \$50,000.
38. **Founder** of Electric Power Analytics Consortium, 2012. Current members: Centerpoint and Direct Energy, \$200,000.

39. **Principal Investigator** of “Teaching and Research Proposal for Texas Instrument Digital Signal Processor,” Texas Instruments and Micron Technology, funded, \$151,580, 2007.

Other Projects

40. **CO-Principal Investigator** of “Reconstructing high-resolution infrared spectroscopic images from high-speed multimodal microscopes,” CACDS: Seed Funding For Advanced Computing, University of Houston, \$40,000, 2017-2018.
41. **Principal Investigator** of “A Context Aware Framework for Optimized Resource Management in Fourth Generation Wireless Systems,” collaborative with American University of Beirut and Nanyang Technological University, Qatar National Research Fund, NPRP 4 - 347 - 2 - 127, funded, \$125,000 out of a total of \$400,000, 2012-2015.
42. **New Faculty Award**, \$6,000, University of Houston, Houston, Texas, 2008.

Participants (Senior Personnel) of European Projects

43. funded by Japan ASPIRE (Adopting Sustainable Partnerships for Innovative Research Ecosystem), 2023-2026.
44. “Rate Allocation for Satellite Systems with Correlated Channels Based on a Stackelberg Game,” funded, European Space Agency PRESTIGE Programme, 2009-2012.
45. “Theoretical Foundations of Mobile Flexible Networks,” VERDIKT project supported by Research Council of Norway, 2007-2010.
46. “Optimized Heterogeneous Multiuser MIMO Networks - OptiMO,” VERDIKT project supported by Research Council of Norway, 2008-2011.
47. “Mobile-to-Mobile Communication Systems - M2M,” VERDIKT project supported by Research Council of Norway, 2009-2012.

HONORS FOR RESEARCH

ACM Distinguished Speaker 2022-2025.

ECE Distinguished Alumni Award, University of Maryland, 2022.

IEEE Vehicular Technology Society 2022 Best Land Transportation Paper Award.

IEEE Kiyo Tomiyasu Award 2021 (IEEE Technical Field Awards), for outstanding early to mid-career contributions to technologies holding the promise of innovative applications, with the following citation: “For contributions to game theory and distributed management of autonomous communication networks.”

AAAS Fellow in 2019 (class of 2020) for distinguished contributions to the field of game theory, particularly for modeling, analysis and algorithm design of new applications in communication networks.

ACM Distinguished Member since 2019.

IEEE Fellow in 2013 (class of 2014) for contributions to resource allocation and security in wireless communications

Best Paper Award, AMA Winter Academic Conference, 2020

Best Paper Award, IEEE International Conference on Communications, Shanghai, China 2019.

WCSP 10-Year Anniversary Excellent Paper Award, International Conference on Wireless Communications and Signal Processing, 2019.

Best Conference Paper, IEEE Technical Committee on Green Communications & Computing, 2019

IEEE Distinguished Lecturer, 2015-2018.

Best Journal Paper, IEEE Technical Committee on Green Communications & Computing, 2018

Best Paper Award, IEEE Globecom, Singapore, 2017

Best Paper Award, IEEE International Conference on Communications in China, Qingdao, China, 2017.

Best Paper Award 2016, IEEE Journal on Selected Areas on Communications (IEEE Leonard G. Abraham Prize in the field of Communications Systems).

Best Paper Award, IEEE International Conference on Communications, Kuala Lumpur, Malaysia, 2016.

Best Paper Award, IEEE International Conference on Communication Systems, Shengzhen, China, 2016.

Best Paper Award 2015 EURASIP Best Paper Award for the Journal on Advances in Signal Processing.

Best Paper Award, IEEE International Conference on Communications, London, UK, 2015.

Best Paper Award, IEEE Globe Communication Conference, Austin, Texas, 2014.

Best Paper Award, IEEE Wireless Communication and Networking Conference, Shanghai, China, 2013.

Best Paper Award, IEEE International Conference on Smart Grid Communications, Tainan, Taiwan, China, 2012.

Best Paper Award, International Conference on Wireless Communications and Signal

Processing (WCSP), Huangshang, China, 2012.

Best Paper Award, Two in IEEE Wireless Communication and Networking Conference, Paris, France, 2012.

The 2011 IEEE Communications Society Fred W. Ellersick Prize, IEEE Wireless Communications Magazine Best Paper Award.

Award for Excellence in Research & Scholarship, the highest level (2 awardees per year) in University of Houston, 2011 and 2015.

NSF Career Award, 2010.

Best Paper Award, IEEE International Conference on Communications, Dresden, Germany, 2009.

Best Paper Award, 7th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks, (WiOpt09), South Korea, 2009.

VISITING
EXPERIENCE

Beijing University, Beijing China
Tsinghua University, Beijing China
Visiting Professor **August, 2013**

Hongkong RGC visitor program, Hong Kong
International Visiting Professor **August, 2012**

Kyung Hee University, South Korea
International Scholar **June-July, 2011, January 2012**

Host: Professor Ju Bin Song.

Visiting Korean University, Seoul National University, Sungkyunkwan University, KAIST, Gwangju Institute of Science and Technology, National Taiwan University, National Chiao Tung University, Tsinghua University, Shanghai Jiaotong University, Chinese University of Hongkong, Hong Kong University of Science and Technology, Hong Kong Polytech. Nanyang Technology Singapore, and National University of Singapore.

Inria, France
Visiting Professor **June, 2010**

Host: Professor Eitan Altman

University of Illinois, Urbana-Champaign, USA
Visiting Professor **July, 2009**

Host: Professor Tamer Basar

University of Oslo, Oslo, Norway; **Supeclec**, Paris, France
Visiting Professor **May, 2008 - July, 2008**

Host: Professor Are Hjørungnes and Professor Mérouane Debbah

Stanford University, Stanford, California, USA

Visiting Professor

May, 2007 - August, 2007

Host: Professor John M. Cioffi

Princeton University, Princeton, New Jersey, USA

Visiting Scholar

July, 2006 - August, 2006

Host: Professor H. Vincent Poor

TEACHING
EXPERIENCE

University of Houston, Houston, USA

ECE6397 Selective Topics in Optimization

Fall, 2012

ECE6333 Detection and Estimation

Spring, 2011-Present, odd year number

ECE6332 Wireless Communication

Spring, 2010, 2014, 2016, 2017, 2018

ECE6331 Advanced Telecommunications

Spring, 2009

ECE4371 Introduction to Telecommunication Engineering

ECE4117 Telecommunication Laboratory

Fall, 2008-Fall, 2018

ECE 6331/5397 Advanced Telecommunication

ECE4117 Telecommunication Laboratory

Fall, 2019-Present

ECE6397 Selective Topics in Big Data

Spring, 2020-Present even year number

Boise State University, Boise, Idaho, USA

EE 552/452: Wireless Communications and Networks

Spring, 2007-2008

EE 554/454: Digital Signal Processing

Fall, 2007

EE 551/451: Communication Systems

Fall, 2006-2007

University of Maryland, College Park, Maryland, USA

Guest Lecturer, Undergraduate ENES100

Fall, 2004; Fall, 2005

Beijing University, China, summer 2019

Beijing University of Posts and Telecommunications, China, summer 2018

Signal Processing and Networking for Big Data Applications

http://www2.egr.uh.edu/~zhan2/big_data_course/

National Chiao Tun University, Taiwan, three visits, 2019

Kyung Hee University, South Korea, summer 2017

Game Theory in Wireless and Communication Networks: Theory, Models, and Applications

http://www2.egr.uh.edu/~zhan2/game_theory_course/

CURRENT GROUP
MEMBER

1. Jiachen Shen, Ph.D. Student
2. Dingwen Pan, Ph.D. Student
3. Zijian Zhan, Ph.D. Student
4. Daniel Doe, Ph.D. Student
5. Yuhan Kang, Ph.D. student
6. Faheem Quazi, Ph.D. student
7. Kai-Chu Tsai, Ph.D. student, joint with Dr. Ricardo, Lent
8. Yuan Zi, Ph.D. student, joint with Dr. Jiefu Chen
9. Mingze Li, Ph.D. student, joint with Dr. Lei Fan
10. Zhongqi Zhao, Ph.D. student, joint with Dr. Lei Fan
11. Wenlu Xuan, Ph.D. student, joint with Dr. Lei Fan
12. Salma Sultana, Ph.D.
13. Dr. Shuhao Zeng, Postdoc

ALUMNI

1. Wen Xie, Ph.D. 2023, “Machine Learning and Unstructured Data Analytics for Digital Marketing”
2. Eyad Shtaiwi, Ph.D. 2023, “Reconfigurable Intelligent Surfaces: Channel Estimation and Applications in Future Wireless Networks”, joint with Dr. Ahmed Abdelhadi
3. Hao Gao, Ph.D. 2023, “Connect Mean Field Games with Machine Learning in Distributed Systems”
4. Jing Li, Ph.D. 2022, “Contract Theory Framework for Cryptoeconomics”
5. Dawei Chen, Ph.D. 2021, “Machine Learning for Multi-Access Edge Computing and Autonomous Driving”
6. Mohamed Elmossalamy, Ph.D. 2020, “Passive Reflection Techniques for Wireless Communications”
7. Xunsheng Du, Ph.D. 2020, “Applied Machine Learning with Latent Space Representation and Manipulation”
8. Saeed Ahmadian, Ph.D. 2020, “Detecting Cyber-attacks to Smart Grids and Increasing Resiliency using Data Driving Algorithms,” joint with Dr. Heidar Malki
9. Kuo Chun (Kevin) Tsai, Ph.D. 2020, “Link Game Theory and Machine Learning in Theories and Applications”
10. Reginald Banez, Ph.D. 2020, “Mean Field Game Theory for Future Heterogeneous and Hierarchical Communication Networks”
11. Neetu Raveendran, Ph.D. 2019, “Game Theoretic and Machine Learning Techniques for Efficient Resource Allocation in Next Generation Wireless Networks.”
12. Qiuyang Shen, Ph.D. 2019, “Statistical Bayesian Inversion of Directional Electromagnetic Logging Data”, joint with Dr. Jiefu Chen
13. Mounika Sai Errapotu, Ph.D. 2018, “Secure Computing with Privacy Preservation for Cyber-Physical Systems,” joint with Dr. Miao Pan

14. Huaqing Zhang, Ph.D. 2017, "A Hierarchical Game Framework for Distributive Resource Allocation in Future HetNet."
15. Radwa Aly, Ph.D. 2017, "Utilizing Full Duplex Multiple Antenna System in Heterogeneous Networks."
16. Fahira Sangare, Ph.D. 2017, "RF Energy Harvesting and Information Transfer Implementation in the Internet of Things."
17. Hung Nguyen, Ph.D. 2017, "Big Data Optimization for Distributed Resource Management in Smart Grid."
18. Yunan Gu, Ph.D. 2016, "Matching Theory Framework for 5G Wireless Communications."
19. Yanru Zhang, Ph.D. 2016, "Contract Theory Framework for Wireless Networking."
20. Erte Pan, Ph.D. 2016, "Big Data Analysis of Complex Networks using Machine Learning Methods."
21. Ali Arab, Ph.D. 2015, "Asset Management Of Smart Grid Infrastructure For Resiliency Enhancement", Industrial Engineering, joint with Professor Suresh Khator.
22. Ateeth Kumar Thirukkovulur, M.S. 2015, "Novel Infrastructure Quantification For Utility Of Virtualized Network Debugging Using Openflow As Visualization Of Packets And Software Defined Networking," joint with Professor Deniz Gurkan.
23. Lanchao Liu, Ph.D. 2014, "Big Data Optimization for Modern Communication Networks," winner of National Excellent Ph.D Student Scholarship.
24. Najmeh Forouzandeh Mehr, Ph.D. 2013, "Game Theoretical Framework for Dynamic Control in Smart Grid".
25. Nam Tuan Nguyen, Ph.D. 2013, "A Nonparametric Bayesian Framework For Mobile Device Security And Location Based Services".
26. Guanbo Zheng, Ph.D. 2013, joint with professor Rong Zheng, "Toward Reliable and Robust Wireless Personal Area Networks".
27. Mohammad Esmalifalak, Ph.D. 2013, "Attack and Defense Mechanisms for State Estimation in Smart Grid".
28. Thanh Le, M.S. 2013, "Sequential Learning for Passive Monitoring of Multi-Channel Wireless Network".
29. Yi Huang, Ph.D. 2012, "A Quickest Detection Framework for Smart Grid".
30. Tina Mathews, M.S. 2012, "USRP2 Implementation of Compressive Sensing based Channel Estimation in OFDM".
31. Zhou Yuan, Ph.D. 2012, "A Framework Of Belief Propagation and Game Theory for Cognitive Radio Security and Routing".
32. Jia Meng, Ph.D. 2010, "Compressive Sensing Applications for Wireless Communications".
33. Barsha Shrestha, MS. 2008, "Wireless Access in Vehicular Environments using Bit Torrent and Bargaining"
34. Hongliang Zhang, joint with Princeton University, now professor in Peking University, China.
35. Duy Nguyen, Postdoc, now professor in San Diego State University, tenured.

36. Yong Xiao, Postdoc, now professor in Huazhong University of Science and Technology, China.
37. Samir Medina Perlaza, Ph.D. Supelec, France, joint with Princeton University, now in Inria, France.
38. Walid Saad, Postdoc, Ph.D. University of Oslo, joint with Princeton University, professor in University of Miami.
39. Yingying Li, Postdoc, Ph.D. University of California, Los Angeles, joint with Rice University, now in Wall street.

VISITORS

- Professor Dusit (Tao) Niyato, School of Computer Engineering, Nanyang University, Singapore, Feb - Mar. 2008, July 2011
- Professor Husheng Li, Department of EECS, University of Tennessee, TN, Oct. 2008
- Professor Are Hjørungnes, UNIK, University of Oslo, Norway, Dec. 2008
- Dr. Nam Tran Nguyen, University of New South Wales, Australia, Jan. 2009
- Dr. Ninoslav Marina, University of Oslo, Norway, Feb. 2009
- Professor Ekram Hossain, University of Manitoba, Canada, Feb. 2009
- Professor Lijun Qian, Prairie View A&M University, TX, Mar. 2009
- Professor Walid, Saad, UNIK, University of Oslo, Norway, University of Miami, Mar. 2009, Mar. 2010
- Professor Ruhai Wang, Lamar University, TX, Sep. 2009
- Professor Ju Bin Song, Kyung Hee University, South Korean, Aug. 2009 - Aug. 2010
- Dr. Quanyan Zhu, University of Illinois at Urbana-Champaign, IL, Jan. 2010
- Dr. Lei Jiang, University Autonomia de Barcelona, Spain, Jan. 2010 - Mar. 2010
- Professor Wotao Yin, Rice University, TX, Jan. 2010; UCLA, CA, Apr. 2015
- Professor Jake Baker, Boise State University, ID, Jan. 2010
- Professor Andres Kwasinski, Rochester Institute of Technology, NY, Mar. 2010
- Professor Ashutosh Sabharwal, Rice University, TX, Apr. 2010
- Professor Tie Liu, Texas A&M University, TX, Apr. 2010
- Professor Wei Zhang, New South Wales University, Australia, Jun. 2010
- Professor Shuguang (Robert) Cui, Texas A&M University, TX, Sep. 2010
- Professor Zixiang Xiong, Texas A&M University, TX, Feb. 2011, Apr. 2012
- Professor Zhi Tian, Michigan Technological University, MI, Feb. 2011
- Professor Yang Xiao, University of Alabama, AL, Feb. 2011
- Professor Yu Cheng, Illinois Institute of Technology, IL, Mar. 2011
- Professor Le Xie, Texas A&M University, TX, Mar. 2011
- Professor Hamed Mohsenian-Rad, Texas Tech University, TX, Apr. 2011
- Dr. Yifan Li, Nanyang Technology University, Singapore, Apr. 2011
- Professor Jianwei Huang, Chinese University of Hong Kong, Dec. 2011
- Professor Angela Zhang, Chinese University of Hong Kong, Dec. 2011
- Professor Guoqiang Mao, National University of Australia, Dec. 2011
- Professor Xinbin Wang, Shanghai Jiaotong University, Dec. 2011
- Professor Eryk Dutkiewicz, Macquarie University, Australia, Dec. 2011
- Mr. Chen Wang, Shanghai Jiaotong University, Jan. 2012 – Jun. 2012
- Professor Thad Welch, Boise State University, Feb. 2012
- Dr. Wooyeol Choi, GIST, South Korea, Mar. 2012
- Professor Hongyi Wu, University of Louisiana at Lafayette, Apr. 2012
- Professor Rao Thammavaram, University of Louisiana at Lafayette, Apr. 2012

- Professor Guowang Miao, KTH, the Royal Institute of Technology, Sweden, Jul. 2012
- Professor Qing Ling, University of Science and Technology of China, Aug. 2012 – Aug. 2013
- Professor Miao Pan, Texas Southern University, Oct. 2012
- Professor Chengshan Xiao, Missouri University of Science and Technology, Jan. 2013
- Professor Mehdi Abolhassani, College of Technology, University of Houston, Dec. 2013
- Professor Qi Su, Newcastle University, UK, Jun., 2014
- Dr. Yangqing Li, Beijing University of Posts and Telecommunications, Aug. 2014- Aug. 2015
- Dr. Jia You, Beijing Jiaotong University, May 2014- May 2015
- Dr. Yingyu Li, Xidian University, Aug. 2014- Aug. 2016
- Dr. Yun Hu, Xidian University, Aug. 2014- Aug. 2015
- Professor Hang Qin, Yangtze University, China, Aug. 2014- Aug. 2015.
- Professor Mingyi Hong, Iowa State University, Nov. 2014
- Professor Nguyen Hoang Tran, Kyung Hee University, South Korea, Dec., 2014
- Professor Zaher Dawy, American University of Beirut, Lebanon, Dec. 2014
- Professor Minming Ni, Beijing Jiaotong University, China, Dec. 2014
- Professor Hui Yang, University of South Florida, Mar. 2015
- Professor Fang Yang, Tsinghua University, China, Apr. 2015
- Professor Amin Khodaei, University of Denver, Apr. 2015
- Professor Chungang Yang, Xidian University, China, Mar. 2015 - Mar. 2016
- Dr. Chufei Ouyang, Wuhan University, Aug. 2015- Sep. 2015.
- Dr. Xiao Tang, Xi'an Jiaotong University, Sep. 2015- Aug. 2016.
- Professor Shaolei Ren, University of California, Riverside, Sep. 2015.
- Professor Husheng Li, University of Tennessee, Sep. 2015- Aug. 2016.
- Professor Guiling Wang, NJIT, Nov. 2015,
- Dr. Huu Ngoc Duy Nguyen, McGill, Nov. - Dec. 2015.
- Professor Liang Xiao, Xiamen University, China, Dec. 2015.
- Dr. Wenbo Wang, Tsinghua University, China, Jan.-Mar. 2016.
- Dr. Xianfu Chen, VTT, Finland, Mar.-Apr. 2016.
- Professor Wei Song, University of New Brunswick, Canada, Mar.-Apr. 2016.
- Professor Yu Wang, University of North Carolina at Charlotte, May 2016.
- Professor Mei Li, China University of Geosciences, August 2016 - July 2017.
- Dr. Minsu Shin, Samsung, Korea, August 2016-November 2016.
- Professor Xuefang Liu, Xidian University, China, September 2016 - September 2017.
- Ye Yu, Beijing Institute of Technology, September 2016 - September 2018.
- Hui Chen, Beijing University of Posts and Telecommunications, September 2016 - September 2017.
- Professor Haitao Xu, University of Science and Technology Beijing, October 2016 - April 2017.
- Professor YiFei Wei, Beijing University of Posts and Telecommunications, November 2016 - May 2017.
- Dr. Chen-Feng Liu, University of Oulu, Finland, December 2016.
- Dr. Liangliang Zhang, University of Electronic Science and Technology of China, December 2016 - December 2017.
- Professor Shaohua Qin, Shandong Normal University, China, December 2016- December 2017.

- Professor Francis Bui, University of Saskatchewan, Canada, July 2017 – July 2018.
- Dr. Xuelin Cao, Northwestern Polytechnical University, China, September 2017 – September 2018.
- Dr. Zhikun Wu, Beijing Institute of Technology, China, September 2017 – September 2018.
- Dr. Chunxia Su, Harbin Engineering University, China, September 2017 – September 2018.
- Dr. Chuanyin Li, Xidian University, China, September 2017 – September 2018.
- Dr. Di Zhou, Xidian University, China, September 2017 – September 2018.
- Professor Hongyuan Yang, Jilin University, October 2018 - October 2019.
- Dr. Junhua Wang, Chongqing University, October 2018 - October 2019.
- Professor Tingting Liu, Nanjing University of Posts and Telecommunications, November 2017 - November 2018.
- Dr. Ruoguang Li, Beijing University of Posts and Telecommunications, December 2017 - December 2018.
- Dr. Zhongyu Miao, Beijing University of Posts and Telecommunications, December 2017 - December 2018.
- Professor Wu Fang, Suzhou Institute of Trade & Commerce, February 2018- February 2019.
- Professor Jian Zhou, Anhui University of Finance and Economics, China, March 2018 - March 2019
- Professor Lisheng Yang, Congqing University, China, April 2018- April 2019.
- Dr. Benedetta Picano, University of Florence, Italy, May 2018 - May 2019.
- Dr. Zejian Feng, Tsinghua University, China, May 2018- May 2019.
- Dr. Yue Yu, Southeast University, China, September 2018- September 2019.
- Professor Guobin Zhang, Dongguan University of Technology, China, September 2018- September 2019.
- Professor Long Zhang, Hebei University of Engineering, China, September 2018- September 2019.
- Dr. Ziyi Jia, Xidian University, China, October 2018-October 2019.
- Dr. Yan Zhu, Xidian University, China, October 2018-October 2019.
- Dr. Yu Zhang, Tsinghua University, China, October 2018-October 2019.
- Professor Huaizhu Zhang, Jilin University, China, October 2018-October 2019.
- Professor Qixun Zhang, BUPT China, October 2018-October 2019.
- Dr. Lun Li, Beijing Jiaotong University, China, November 2018, November 2019.
- Dr. Jingxian Liu, Beijing Jiaotong University, China, November 2018, November 2019.
- Professor Li Wang, BUPT China, January 2019-February 2019.
- Dr. Minghui Min, Xiamen University, February 2019 - February 2020.
- Professor Enchang Sun, Beijing University of Technology, April 2019 - April 2020.
- Dr. Zirui Zhuang, BUPT China, June-December 2019.
- Dr. Mykola Sevetnyk, National Chiao Tun University, Taiwan, China, July-September 2019.
- Professor Linhang Zhang, Associate Professor, Jilin University, China, September 2019-September 2020.
- Dr. Yongsheng Cao, Donghua University, China, September 2019-September 2020.
- Dr. Zhuang Ling, Jilin University, September 2019-Se

- Dr. Danye Wu, Institute of Computing Technology, Chinese Academy of Sciences, China, October 2019-October 2020.
- Dr. Jingwen Tong, Xiamen University, China, November 2019-November 2020.
- Dr. Yali Chen, Beijing Jiaotong University, China, November 2019-November 2020.
- Dr. Yang Yang, Beijing Jiaotong University, China, November 2019-November 2020.
- Professor Choong Seon Hong, Kyung Hee University, South Korea, December 2019-December 2020.
- Dr. Dezhi Wang, Zhejiang University, September 2020- September 2021.
- Dr. Sijing Ji, Xidian University, November 2020- November 2021.
- Professor Li-Chun Wang, National Chiao Tun University, December 2021.
- Dr. Huan Huang, University of Electronic Science and Technology of China, February 2022-February 2023.

PROFESSIONAL
ACTIVITIES

Editor

- Area Editor in Learning for PHY/MAC Communications & Signal Processing, IEEE Transactions on Machine Learning in Communications and Networking, 2022 - Present
- Area Editor in Resource Management and Network Optimization, IEEE Journal on Selected Areas in Communications, Series in Machine Learning in Communications and Networks, 2020 - Present
- Online Editorial Team, IEEE Transactions on Wireless Communications, 2019 - Present
- Senior Editor, IEEE Access, 2016 - Present.
- Associate Editor, ACM Transactions on Cyber-Physical Systems (TCPS), 2022 - Present
- Associate Editor, Journal of Communications and Networks, 2015 - Present.
- Associate Editor, IEEE Transactions on Vehicular Technology, 2021 - present.
- Associate Editor, IEEE Transactions on Wireless Communications, 2010 - 2015.
- Guest Editor, IEEE Network Magazine, Special Issue on Federated Optimizations and Networked Edge Intelligence, 2022.
- Guest Editor, Journal of Communications and Networks, special issue on “Aerial Access Networks for 6G,” 2022.
- Guest Editor, IEEE Wireless Communications, special issue on “Smart Communication Protocols and Algorithms for Resilient Mobile Networks,” 2022.
- Guest Editor, IEEE Journal of Selected Topics on Signal Processing, special issue on “Antenna Array Enabled Space/Air/Ground Communications and Networking, 2022.
- Guest Editor, IEEE Journal of Selected Topics on Signal Processing, special issue on “Advanced Signal Processing Techniques and Communication Applications for Distributed Machine Learning”, 2021.
- Guest Editor, IEEE Open Journal of Vehicular Technology, Special Issue on Distributed Intelligence for Future Vehicular Networks, 2021.
- Guest Editor, IET Communications, Special Issue on Emerging and Future Aerial Access Networks for 5G and Beyond, 2021.
- Guest Editor, IEEE Transactions on Industrial Informatics, special issue on Green Industrial Internet of Things, 2020.
- Guest Editor, Hindawi Wireless Communications and Mobile Computing, Special issue for Deep Learning Driven Wireless Communications and Mobile Computing, 2019.

- Guest Editor, IEEE Signal Processing Magazine Special Issue for Contactless Monitoring of Critical Infrastructure, 2018.
- Guest Editor, IEEE Internet of Things Journal Special Issue on Wireless Energy Harvesting for Internet of Things, 2018.
- Guest Editor, IEEE Wireless Communication Magazine on Content-Centric Collaborative Edge Caching in 5G Mobile Internet, 2017.
- Guest Editor, IEEE Communication Magazine Special Issue on Heterogeneous Ultra Dense Networks, 2017.
- Guest Editor, IEEE Transactions on Emerging Topics in Computing, “Spectrum Sharing and Aggregation for Future Wireless Networks,” 2016.
- Guest Editor, IEEE Transactions on Emerging Topics in Computing, Special Issue on Big Data Computing for Smart Grid 2016.
- Guest Editor, IEEE Wireless Communications Magazine, Special Issue on Wireless Powered Communications Networks, 2016.
- Guest Editor, IEEE Access, Special Issue on Ultra-Dense Cellular Networks, 2016.
- Guest Editor, EURASIP Journal on Wireless Communications and Networking thematic series on “Full-Duplex Radio: Theory, Design, and Applications”, 2016.
- Guest Editor, JCN Special Issue On Big Data Over Networks, 2015.
- Guest Editor, JCN Special Issue On Cyber Physical Systems, 2013.
- Guest Editor, IEEE Network Magazine, Special Issue on Security in Cognitive Radio Networks, 2012.
- Guest Editor, IEEE Journal on Selected Areas in Communications, “Cooperative Networking: Challenges and Applications,” 2011.
- Guest Editor, Special Issue on Game Theory in Wireless Networks, EURASIP Journal on Advances in Signal Processing, 2009.
- Guest Editor, Special Issue on Fairness of Radio Resource Management Techniques in Wireless Networks, EURASIP Journal on Wireless Communications and Networking, 2009.
- Guest Editor, Special Issue on Cross-layer Optimized Wireless Multimedia Communications, Journal of Advances in Multimedia, 2007.

Conference Organizer

- Tutorial Chair, IEEE Smartgridcomm, 2024
- Award Committee, IEEE International Conference on Communication (ICC) 2023
- Steering Committee, IEEE 15th International Conference on Innovations in Information Technology,
- Track Co-Chair, VTC Fall 2022
- Vice Chair, the 20th IEEE International Conference on Embedded and Ubiquitous Computing, 2022.
- Advisory Committee Member, Workshop for GIntegrating metaverse with blockchain and 6G for next-generation IoT, IEEE iThings, 2022.
- International Cooperation Co-Chair, International Conference on Information Networking (ICOIN), 2021.
- Track Chair, The 16th International Conference on Mobility, Sensing, and Networking (IEEE MSN), 2020.
- Workshop co-Chair, Edge Machine Learning for 5G Mobile Networks and Beyond, IEEE International Conference on Communications, 2020.
- International Cooperation Co-Chair, International Conference on Information Net-

- working (ICOIN), 2020.
- General Chair, MobiQuitous, 2019.
 - TPC Co-chairs, IEEE Smartgridcom, 2019.
 - Workshop Organizer, Wireless Energy Harvesting Communication Networks, IEEE Globecom, 2018.
 - Workshop Organizer, 5G Ultra Dense Networks, IEEE International Conference on Communications, 2018.
 - Publicity Chair, the 23rd Asia Pacific Conference on Communications, 2017.
 - Publication Co-Chair, IEEE International Conference on Communications in China, 2017.
 - Steering Committee, Wireless Energy Harvesting Communication Networks Workshop, IEEE Globecom, 2016.
 - TPC Co-Chair, Wireless Communications Systems Symposium, IEEE International Conference on Communications in China, 2016.
 - TPC Chair, IEEE International Conference on Communications, Workshop on Wireless Physical Layer Security, 2016.
 - TPC Chair, the 2nd International Conference on Big Data Computing and Communication (BIGCOM), 2016.
 - TPC Chair, IEEE Workshop on Wireless Powered Communication Networks (WPC-Nets), together with IEEE WCNC 2016.
 - Chair, IEEE GlobalSIP 2014 Workshop on Game Theory for Signal Processing and Communications, 2014.
 - Organizing Committee, IEEE International Conference on Communications, Workshop on Wireless Physical Layer Security, 2015.
 - Symposium Chair, Wireless Networking, IEEE International Conference on Communications in China, 2013.
 - General Chair, 1st IEEE INFOCOM Workshop on Communications and Control for Sustainable Energy Systems: Green Networking and Smart Grids, 2012.
 - TPC Chair, IEEE INFOCOM Workshop on Communications and Control for Smart Energy Systems (CCSES), 2013, 2014.
 - Program Chair, International Workshop on Practical Issues and Applications in Next Generation Wireless Networks (PINGEN), in conjunction with ACM MOBICOM 2012, Istanbul, Turkey, August 22-26, 2012.
 - Organizing Committee, Communications Technologies for Smart Grid, IEEE Globecom Workshop, 2011.
 - Wireless Communications Symposia Chair, IEEE International Conference on Computer Communications and Networks (ICCCN) Conference, 2011.
 - Wireless Communications Symposia Co-Chair, 74th IEEE Vehicular Technology Conference (VTC), Fall 2011.
 - Communication and Information Theory Symposia Co-Chair of the 6th International Wireless Communications and Mobile Computing Conference (IWCMC), 2010 (best symposium), 2012.
 - Local Chair of The Seventh International ICST Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine), 2010.
 - Publicity Co-chair of Conference on Decision and Game Theory for Security (GameSec), 2010.
 - Cooperative and Cognitive Networks Workshop Co-Chair of International Wireless Communications and Mobile Computing Conference (IWCMC 2009).

- MAC Symposium Vice Chair of IEEE Wireless Communications and Networking Conference, 2008.
- Publicity Chair of Cognitive Radio Workshop with IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2008, 2012.

Tutorials

1. “Reconfigurable Holographic Surfaces: A New Paradigm to Ultra-Massive MIMO,” IEEE WCNC 2024.
2. “Federated Analytics: A Bridge Between Data Science and Machine Learning”, IEEE CCNC 2024.
3. “Holographic Radio: A New Paradigm for Communication and Sensing in 6G,” IEEE Globecom 2023.
4. “Holographic Radio: A New Paradigm for Future Ultra-Massive MIMO,” IEEE PIMRC 2023.
5. “AI-driven Decarbonization for Power Systems,” IEEE PES PowerTech, 2023.
6. “Federated Analytics: A bridge between data science and machine learning,” IEEE ICC 2023.
7. “Holographic Radio: A New Paradigm for Future Ultra-Massive MIMO,” IEEE ICC 2023.
8. “Holographic Radio: A New Paradigm for Ultra-Massive MIMO”, IEEE CCNC 2023.
9. “Hybrid Quantum-Classical Computing for Future Network Optimization, IEEE MILCOM 2022.
10. “Holographic Radio: A New Paradigm for Ultra-Massive MIMO”, IEEE MILCOM 2022.
11. “Holographic Radio: A New Paradigm for Future Ultra-Massive MIMO,” IEEE Globecom 2022.
12. “AI-driven Decarbonization for Energy Systems,” IEEE SmartGridComm 2022.
13. “MetaEverything: Ubiquitous Sensing and Communications Aided by Intelligent Meta-Surfaces,” IEEE International Conference on Communications, 2022.
14. “MetaEverything: Ubiquitous Sensing and Communications Aided by Intelligent Meta-Surfaces,” *IEEE Wireless Communications and Networking Conference*, 2022.
15. “Distributionally Robust Optimization and Machine Learning for Communication Networks,” *IEEE Consumer Communications & Networking Conference* 2022.
16. “Blockchain and Cryptoeconomics for Cyber-physical System and Wireless Networks,” IEEE GLOBECOM 2021.
17. “Reconfigurable Intelligent Surfaces for 6G: Communications, Localization, and Sensing,” IEEE GLOBECOM 2021.
18. “MetaEverything: Intelligent Meta-Material Aided Sensing and Communications,” IEEE Vehicular Technology Conference (VTC) Fall 2021.
19. “MetaEverything: Intelligent Meta-Surface Aided Sensing and Communications,” IEEE International Conference on Communications, 2021.

20. "MetaEverything: Intelligent Meta-Surface Aided Sensing and Communications," IEEE Wireless Communications and Networking Conference, 2021.
21. "Aerial Access Networks for 6G: From UAV, HAP, to Satellite Communication Networks," IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2020.
22. "Reconfigurable Intelligent Surface for 6G: Communication, Sensing, and Localization," IEEE/CIC International Conference on Communications (ICCC) in China 2020.
23. "Aerial Access Networks for 6G: From UAV, HAP, to Satellite Communication Networks," IEEE International Conference on Communication (ICC) 2020.
24. "UAV Communications in 5G and Beyond: Integration of Sensing, Control, and Learning," IEEE Wireless Communications and Networking Conference, 2020.
25. "UAV Applications over Cellular Networks: Sensing, Communication, and Computation," IEEE International Conference on Communication (ICC) 2019.
26. "UAV-based Sensing and Communications for 5G and Beyond," IEEE/CIC International Conference on Communication in China (ICCC) 2019.
27. "Signal Processing for Big Data Analytics: Fundamental and Applications," IEEE Global Communications Conference (Globecom), 2018.
28. "Big Data Signal Processing for Communication Networks," IEEE Global Communications Conference (Globecom), 2017.
29. "5G Wireless Communications: Enabling Technologies and Resource Management," IEEE Global Communications Conference (Globecom), 2016.
30. "Full-Duplex Communications and Networks," IEEE International Conference on Communications in China (ICCC), 2016.
31. "Distributed Resource Allocation for 5G Communications and Networks," IEEE International Conference on Communications (ICC), 2016.
32. "Full-Duplex Communications and Networks: Fundamentals, Technologies, and Applications," IEEE Global Communications Conference (Globecom) 2015.
33. "Resource Allocation for Full-Duplex Communication and Networks," IEEE International Conference on Communication (ICC) 2015.
34. "Full-Duplex Wireless Communication and Networks: Key Technologies and Applications", IEEE International Conference on Communication in China (ICCC) 2014.
35. "Game-theoretic Methods for Device-to-Device Communications", IEEE International Conference on Communication (ICC) 2014.
36. "Wireless Device-to-Device Communications and Networks", IEEE Global Communications Conference (Globecom) 2013.
37. "Smart Grid Communications and Networking", IEEE International Conference on Communication (ICC) 2013.
38. "Resource Allocation in Wireless Physical Layer Security," IEEE Wireless Communications and Networking Conference (WCNC) 2013.

39. “Device to Device Communication for Next Generation Wireless Networks”, IEEE International Conference on Communication in China (ICCC) 2013.
40. “Smart Grid Communications and Networking,” CHINACOM-2012.
41. “Application of Game Theory for Designing Cognitive Radio Networks,” IEEE International Conference and Communication (ICC) 2010.
42. “Coalitional Game Theory in Wireless Networks,” IEEE Wireless Communications and Networking Conference (WCNC) 2010.
43. “Game Theory for Cognitive Radio Networks,” IEEE Global Communications Conference (Globecom) 2009.

Technical Program Committee

- Member of Technical Program Committee of IEEE/ACM INFOCOM, 2011-2024.
- Member of Technical Program Committee of IEEE Global Communications Conference, 2005-2023.
- Member of Technical Program Committee of IEEE International Conference on Communications, 2004-2024.
- Member of Technical Program Committee of IEEE Wireless Communications and Networking Conference, 2005-2024.
- Member of Program Committee of AAAI Conference on Artificial Intelligence, 2022, 2023.
- International Cooperation Co-Chair, International Conference on Information Networking (ICOIN), 2022
- Member of Technical Program Committee of IEEE SmartGridComm, 2012-2020.
- Member of Technical Program Committee of IEEE GlobalSIP, 2014-2018.
- Member of Technical Program Committee of IEEE Blockchain 2020, 2022, 2023
- Member of Technical Program Committee of IEEE International Conference on Distributed Computing Systems (ICDCS) 2019.
- Member of Technical Program Committee of IEEE COMNETSAT 2019.
- Member of Technical Program Committee of IEEE SPAWC 2019, 2022.
- Member of Technical Program Committee of IEEE WiSEE, 2018, 2019, 2020.
- Member of Technical Program Committee of IEEE COMNETSAT, 2018.
- Member of Technical Program Committee of IEEE 7th International Conference on Cloud Networking (CloudNet), 2018, 2019
- Member of Technical Program Committee of International Conference on Computing, Networking and Communications (ICNC), 2019, 2020
- Member of Technical Program Committee of IEEE International Conference on Computer Communications and Networks (ICCCN) Conference, 2007, 2009, 2014, 2017.
- Member of Technical Program Committee of IEEE Milcom, 2016-2023.
- Member of Technical Program Committee of International Conference on Wireless Communications and Signal Processing (WCSP), 2017-2020, 2023.
- Member of Technical Program Committee of IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks (DYSPAN), 2011.
- Member of Technical Program Committee of IEEE 10th International Symposium of Modeling and Optimization of Mobile, Ad Hoc, and Wireless Networks (WiOpt), 2012, 2013, 2014.
- Member of Technical Program Committee of IEEE Conference on Communications and Network Security, 2013.

- Member of Technical Program Committee of IEEE International Conference on Green Computing and Communications, 2013
- Member of Technical Program Committee of IEEE International Conference on Communications, Workshop SmallNets, 2013.
- Member of Technical Program Committee of 8th international conference on Wireless algorithms, systems, and applications, 2013.
- Member of Technical Program Committee of Conference on Decision and Game Theory for Security (GameSec), 2012.
- Member of Technical Program Committee of IEEE/CIC International Conference on Communications in China, 2012, 2014, 2017, 2019-2023.
- Member of Technical Program Committee of the 10th IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), 2013.
- Member of Technical Program Committee of the 8th International workshop on Resource Allocation and Cooperation in Wireless Networks, 2012.
- Member of Technical Program Committee of 2012 International Conference on Wireless Communications and Signal Processing, 2012, 2014.
- Member of Technical Program Committee of Fifth International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), 2011.
- Member of Technical Program Committee of IEEE Consumer Communications and Networking Conference 2005, 2006, 2008, 2009.
- Member of Technical Program Committee of Workshop on “Cognitive Wireless Networks and Systems - Cognitive Radio Networking” 2009.
- Member of Technical Program Committee of ChinaCom 2008, 2009.
- Member of Technical Program Committee of IEEE International Conference on Wireless and Mobile Computing, Networking and Communications, 2008, 2009.
- Member of Technical Program Committee of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2010, 2013–2020.
- Member of Technical Program Committee of Third IEEE Workshop on Networking Technologies for Software Defined Radio (SDR) Networks, 2008.
- Member of Technical Program Committee of First ACM International Workshop on Medical-Grade Wireless Networks, 2009.
- Member of Technical Program Committee of 3rd ICST/ACM International Workshop on Game Theory in Communication Networks, Gamecomm2009, 2009.
- Member of Technical Program Committee of Cognitive Wireless Communications and Networking (CWCN) Workshop, 2009.
- Member of Technical Program Committee of IEEE Vehicular Technology Conference Spring, 2004, Fall, 2007, Fall 2008, Spring 2009, Spring 2010, Spring 2011, Fall 2012.
- Member of Technical Program Committee of International Wireless Communications and Mobile Computing Conference 2007, 2009.
- Member of Technical Program Committee of The 8th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (IEEE WoWMoM 2007), 2007, 2020.
- Member of Technical Program Committee of International Symposium on Multimedia over Wireless (WirelessCom), 2005, 2006.
- Member of Technical Program Committee of International Wireless Communication and Mobile Computing Conference (IWCMC), 2006, 2008, 2014, 2017-2022.
- Member of Technical Program Committee of IEEE Canadian Conference on Electrical & Computer Engineering (CCECE), 2018.

- Member of Technical Program Committee of 12th Communications and Networking Simulation Symposium (CNS'09).
- Member of Technical Program Committee of International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine), 2004, 2005, 2006.
- Member of Technical Program Committee of Workshop on Game Theory for Networks (GameNets) in First International Conference on Performance Evaluation Methodologies and Tools, 2006.
- Member of Technical Program Committee of International Conference on Communications, Circuits and Systems, 2005, 2009.
- Member of Technical Program Committee of the 15th Asia-Pacific Conference on Communications, 2009.

Plenary, Keynote and Invited Talk in Conference

1. Keynote, "Federated Learning and Analysis with Multi-access Edge Computing," the 2nd International Conference On Mobile Internet, Cloud Computing and Information Security (MICCIS) 2024.
2. Plenary Speaker, "Federated Learning and Analysis with Multi-access Edge Computing," International Conference on Electronics, Communications and Networks (ICECN), 2024
3. Keynote "Mean Field Game Applications in Robots and UAVs," International Meet & Expo on Robot Intelligence Technology and Applications (ROBOTMEET), 2024
4. Keynote, "Deep Decarbonization of Multi-Energy Systems: A Carbon-Oriented Framework with Cross-Disciplinary Technologies," Global Summit on Renewable Energy GSREN, 2024
5. Keynote, "," the 4th International Conference on Artificial Intelligence and Computer Engineering(ICAICE), 2023.
6. Keynote, "Optical Intelligent Reflecting Surfaces for Visible Light Communication," International Summit on Lasers, Optics and Photonics (Laser Optics), 2023.
7. Keynote, "Federated Learning and Analysis with Multi-access Edge Computing," 2nd International Conference on Networks, Communications and Information Technology (CNCIT) 2023
8. Keynote, "Deep Decarbonization of Multi-Energy Systems: A Carbon-Oriented Framework with Cross Disciplinary Technologies," Renewable Energy Conference (REN), 2023.
9. Keynote, "Deep Decarbonization of Multi-Energy Systems: A Carbon-Oriented Framework with Cross Disciplinary Technologies," International Conference on Renewable and Sustainable Energy (RENEWABLEENG), 2023.
10. Keynote, "Deep Decarbonization of Multi-Energy Systems: A Carbon-Oriented Framework with Cross Disciplinary Technologies," The International Meet on Power Electronics and Applications (PEAMEET), 2023.
11. Invited talk, "Federated Learning and Analysis with Multi-access Edge Computing," CASPA Spring Symposium, 2023.
12. Keynote "Hybrid Quantum and Classic Computing for Future Networking," International Conference on Information and Computer Technologies (ICICT), 2023.

13. Keynote, “Federated Learning and Analysis with Multi-access Edge Computing,” International Conference on Frontiers of Mathematics and Artificial Intelligence (CFMAI), 2023.
14. Invited Talk, “Hybrid Quantum and Classic Computing for Future Networking,” International Conference on Computing, Networking and Communications (ICNC), 2023.
15. Distinguished Lecture, “Federated Learning and Analysis in Mobile Edge Computing,” ShanghaiTech, 2022.
16. Keynote, “Aerial Access Networks for IoT: From UAV, HAP, to Satellite Communication Networks,” IEEE LEO SatS Workshop, 2022
17. Keynote, “Cryptoeconomics: Economic Mechanisms behind Blockchains,” 21st International Symposium on Communications and Information Technologies (ISCIT) 2022.
18. Keynote, “Distributionally Robust Optimization and Machine Learning for Communication Networks,” 5th International Conference on Sensors, Signal and Image Processing, 2022.
19. Keynote, “Hybrid Quantum and Classic Computing for Future Networking,” the 26th Mobile Computing Workshop (MC2022), 2022.
20. Keynote, “Federated Learning and Analysis in Mobile Edge Computing,” the 2nd International Conference on Information Communication and Software Engineering (ICICSE), 2022.
21. Keynote, “Federated Learning and Analysis in Mobile Edge Computing,” International Wireless Communications and Mobile Computing Conference (IWCMC), 2022
22. Keynote, “Federated Learning and Analysis in Mobile Edge Computing,” the 4th International Conference on Frontiers of Mathematics and Artificial Intelligence (CFMAI), 2022
23. Keynote “Mean Field Game Applications in Robots and UAVs,” International Meet & Expo on Robot Intelligence Technology and Applications (ROBOTMEET), 2022
24. Plenary, “Mean Field Game Applications in Robots and UAVs,” Global Summit and Expo on Robot Intelligence Technology and Applications (GSERITA), 2022.
25. Keynote “Federated Learning and Analysis in Mobile Edge Computing,” IEEE EDGE 2021.
26. Keynote, “Federated Learning and Analysis in Mobile Edge Computing,” Wutong Forum, 2021
27. Keynote, “Distributed Deep Reinforcement Learning for Renewable Energy Accommodation Assessment with Communication Uncertainty in Internet of Energy,” TUBA World Conference on Energy Science and Technology (TUBA WCST), 2021
28. Keynote, “Federated Learning and Analysis in Mobile Edge Computing,” International Conference on Big Data and Intelligent Decision Making (BDIDM), 2021

29. Keynote, "MetaSensing: Reconfigurable intelligent surface Assisted RF 3D Sensing using Machine Learning," The International Conference on Advanced Communication Technologies and Networking (CommNet), 2021
30. Keynote, "Federated Learning and Analysis in Mobile Edge Computing," International Conference on Artificial Intelligence of Things (AIoT), 2021
31. Keynote, "Federated Learning and Analysis in Mobile Edge Computing," International Conference on Sensors, Signal and Image Processing (SSIP), 2021
32. Keynote, "Aerial Access Networks for IoT: From UAV, HAP, to Satellite Communication Networks," Computing, Communications and IoT Applications (ComComAp) Conference, 2021.
33. Keynote, "Federated Learning and its Applications in Big Data and Edge Computing," IEEE the 6th International Conference on Cloud Computing and Big Data Analytics, 2021.
34. Plenary Speaker, "Mean Field Game for Robots," ROBOTMEET, 2021.
35. Keynote, "Big Data Analysis and Cross-Layer Optimization for Communication, Caching and Computing Networks," Third International Conference on Big Data Engineering and Technology, 2021
36. Keynote, "Reconfigurable Intelligent Surface for 6G: Communication, Sensing, and Localization," IEEE Wireless Communication and Networking Conferences Workshop on Reconfigurable Intelligent Surfaces for 5G and Beyond, 2021
37. Keynote, "Aerial Access Networks for 6G: From UAV, HAP, to Satellite Communication Networks," International Conference on Information Networking (ICOIN), 2021.
38. Keynote, "Signal Processing for Big Data Analytics," 5th IEEE International Conference on Big Data Analysis, Xiamen, China, 2021.
39. Keynote, "Aerial Access Networks for 6G: From UAV, HAP, to Satellite Communication Networks," IEEE International Conference on Space-Air-Ground Computing, 2020.
40. Keynote, "Big Data Analysis and Cross-Layer Optimization for Communication, Caching and Computing Networks," The International Conference on Big data, IoT, and Cloud Computing (ICBICC), Tokyo, Japan, 2020.
41. Keynote, "Big Data Analysis and Cross-Layer Optimization for Communication, Caching and Computing Networks," 3RD Workshop on Intelligent Computing and Caching at the Network Edge, IEEE Wireless Communications and Networking Conference, Seoul, South Korea, 2020.
42. Keynote, "Big Data Analysis and Cross-Layer Optimization for Communication, Caching and Computing Networks," 5th IEEE International Conference on Big Data Analysis, Xiamen, China, 2020.
43. Keynote, "Resource Allocation for Full Duplex Communication and Networks," Full Duplex Workshop at IEEE International Conference on Communications, Shanghai, China, 2019.
44. Distinguished Lecture, "Signal Processing for Big Data Analytics," International Conference on Computing, Networking and Communication, Honolulu, HA, February 2019.

45. Keynote Talk, “Mean Field Game for Ultra Dense Networks,” *8th EAI International Conference on Game Theory for Networks*, Seoul, South Korea, April 2018.
46. Invited Talk, “Big Data Analysis for Smart Grid,” *International Conference on Computing, Networking and Communications*, Hawaii, March 2018.
47. Plenary Talk, “Case Study of Big Data Analysis for Smart Grid,” IFOST, Ulsan, Korea, May 2017
48. Plenary Talk, “Full Duplex Communication and its Impact on Wireless Networking”, *IEEE Globecom Full Duplex Wireless Communications Workshop*, Washington DC, 2016.
49. Keynote Speech, “Big Data Analysis: Techniques and Applications,” *DELTA Summer workshop*, Finland, August 2016.
50. Invited Talk, “Resource Allocation in Small Cell Networks with Massive MIMO,” *International Conference on Computing, Networking and Communications*, Hawaii, February 2016.
51. Invited Talk, “Multi-Block ADMM for Big Data Optimization in Smart Grid,” *International Conference on Computing, Networking and Communications*, Anaheim, CA, February, 2015.
52. Keynote Speak, “Wireless Device-to-Device Communications and Game Theoretical Resource Allocation,” *International Workshop on Wireless Networks: Communication, Cooperation and Competition*, Hammamet, Tunisia, May 2014.
53. Plenary Talk, “Cooperation for Cognitive Radios,” *the 4th International Workshop on Game Theory in Communication Networks (Gamecomm)*, Paris, France, May 2011.

Other Services

- IEEE Fellow Committee Member, 2024-2025
- Board of Director/Vice President, Tsinghua Alumni Academia Club of North America, 2022-2023
- Best Paper Award Committee, IEEE International Conference on Communication, 2018, 2022
- Publication Award Committee, IEEE ComSoc Technical Committee on Cognitive Networks (TCCN), 2017, 2018
- Award Board Member, IEEE ComSoc Multimedia Communications Technical Committee (MMTC), 2010-2014.
- Panel, “The Data Scientist: Are they the missing link of analytics-enabled transformation?” Utility Analytics Week, Atlanta, GA, September, 2013.

Proposal, Book and Journal Reviewer

- National Science Foundation Panelist
- IEEE Senior Member Evaluation Panelist
- US Department of Energy Panelist
- American Association for the Advancement of Science Panelist
- European Research Council Panelist
- The Research Grants Council (RGC) of Hong Kong
- U.S.-Israel Binational Science Foundation
- Canada Foundation for Innovation

- Cambridge University Press; John Wiley & Sons, Inc.
- IEEE Xtreme judge
- IEEE Transactions on Information Theory; IEEE Transactions on Communications; IEEE Journal on Selected Areas on Communications, IEEE Transactions on Wireless Communications; IEEE Transactions on Signal Processing; IEEE Transactions on Mobile Computing; IEEE Transactions on Image Processing; IEEE Transactions on Circuits and Systems for Video Technology; IEEE Transactions on Cybernetics; IEEE Communication Letters; IEEE Signal Processing Magazine; IEEE Network Magazine; IEEE Communications Magazine; IEEE Transactions on Broadcasting; IEEE Internet of Things Journal IEEE Transactions on Computational Intelligence and AI in Games; IEEE Transactions on Circuits and Systems I; Optimization and Engineering; Wiley Wireless Communications & Mobile Computing; EURASIP Journal on Applied Signal Processing; ACM Mobile Computing and Communications Review; IEE Proceeding on Communications; Transactions on Computational Intelligence and AI in Games.

University Services

- Cougar Chair Leadership Academy (Department Chair Training)
- Director of Computer System Engineering MS Program under the College of Engineering
- Engineering College Promotion and Tenure Committee
- Faculty Search Committee
- Graduate Course Committee
- Graduate Admission Committee
- ECE Faculty Goal Setting Committee

PUBLICATIONS

Textbooks

1. Zhu Han and K. J. Ray Liu, *Resource Allocation for Wireless Networks: Basics, Techniques, and Applications*, Cambridge University Press, UK, April, 2008.
2. Ekram Hossain, Dusit Niyato, and Zhu Han, *Dynamic Spectrum Access and Management in Cognitive Radio Networks*, Cambridge University Press, UK, 2009.
3. Zhu Han, Dusit Niyato, Walid Saad, Tamer Basar, and Are Hjørungnes, *Game Theory in Wireless and Communication Networks: Theory, Models and Applications*, Cambridge University Press, UK, 2011.
4. Zhu Han, Husheng Li, and Wotao Yin, *Compressive Sensing for Wireless Networks*, Cambridge University Press, UK, 2013 (Chinese version by Tsinghua University Press Limited 2014).
5. Lingyang Song, Dusit Niyato, Zhu Han, and Ekram Hossain, *Wireless Device-to-Device Communications and Networks*, Cambridge University Press, UK, 2015 (Chinese version by China Machine Press 2016).
6. Zhu Han, Mingyi Hong, and Dan Wang, *Signal Processing and Networking for Big Data Applications*, Cambridge University Press, UK, 2017.
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Conference Publications

1. Zibo Wang, Yifei Zhu, Dan Wang and Zhu Han, “Federated Analytics-Empowered Frequent Pattern Mining for Decentralized Web 3.0 Applications,” to appear *IEEE INFOCOM*, Vancouver, Canada, May 2024.
2. Hao Feng, Yi Yang, and Zhu Han, “SCAI: Scalable AI Generative Content for Enhanced Semantic Communication,” invited, *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Seoul, Korea, April 2024.

3. Zhen Gao, Lini Yuan, Xiaodong Xu, and Zhu Han, "Voiceprint Division Multiplexing for Parallel Speech Transmission," *First International Conference on Future Communications and Networks: Communications and Signal Processing Symposium*, Queenstown, New Zealand, December 2023.
4. Zijun Zhan, Yaxian Dong, Daniel Mawunyo Doe, Yuqing Hu, Shuai Li, Shaohua Cao, Wei Li, Zhu Han, "Mitigate Gender Bias in Construction: Fusion of Deep Reinforcement Learning-Based Contract Theory and Blockchain," *IEEE Blockchain*, Oceaion Island, China, December 2023.
5. Haobin Mao, Yanming Liu, Junyi Yang, Zhenyu Xiao, Zhu Han and Xiang-Gen Xia, "Joint Resource Allocation and Trajectory Design for UAV-Assisted Covert Coverage Maximization," *IEEE Global Communications Conference (GLOBECOM)*, Workshop 6GComm, Kuala Lumpur, Malaysia, December 2023.
6. Junyi Yang, Yuhui Geng, Haobin Mao, Zhenyu Xiao, Zhu Han, and Dapeng Oliver Wu, "Satellite-Terrestrial Integrated Network Architecture towards 6G with User Plane Function Trimming," *IEEE Global Communications Conference (GLOBECOM)*, Workshop 6GComm, Kuala Lumpur, Malaysia, December 2023.
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18. Kaixuan Xue, Meiling Li, Wei Chen, Zhu Han and Hu Yuan, "Outage Performance Analysis in Cognitive RIS-NOMA System under Imperfect CSI," *IEEE International Mediterranean Conference on Communications and Networking*, Dubrovnik, Croatia, September 2023.
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38. Haobo Zhang, Hongliang Zhang, Boya Di, Zhu Han, and Lingyang Song, "Holographic Radar: Optimal Beamformer Design for Detection Accuracy Maximization," *IEEE Radar Conference*, San Antonio, TX, May 2023.
39. Luyao Zou, Sheikh Salman Hassan, Yan Kyaw Tun, Zhu Han, and Choong Seon Hong, "Energy Efficient Leaderless Softwarized UAV Network: Joint Intelligent User Association and Resource Allocation Design," *IEEE/IFIP Network Operations and Management Symposium (NOMS)*, Miami, FL, May 2023.
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43. Changzhu Liu, Ruisi He1, Yong Niu, Bo Ai, Zhu Han, Zhangfeng Ma, Meilin Gao, Zhangdui Zhong, and Ning Wang, "Coverage Probability Analysis of RIS-Assisted High-Speed Train Communications," *IEEE Wireless Communications and Networking Conference*, Glasgow, Scotland, UK, March 2023.
44. Eyad Shtaiwi, Ahmed Refaey Hussein, Awais Khawar, Ahmed Alkhateeb, Ahmed Abdelhadi, and Zhu Han, "Implementation of Real-Time Adversarial Attacks on DNN-based Modulation Classifier," *International Conference on Computing, Networking and Communications (ICNC)*, Honolulu, HI, February 2022.
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47. Xin Wang, Jingjing Zhao, Yanbo Zhu, Kaiquan Cai, Xiangmin Guan, and Zhu Han, "Maximum End-to-End Latency Minimization in UAV-Assisted IoT Networks," *IEEE Global Communications Conference (GLOBECOM), Workshop - 6GComm*, Rio de Janeiro, Brazil, December 2022.
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50. Zhuang Ling, Fengye Hu, Tanda Liu, Zhi Mao, and Zhu Han, "Hierarchical DRL for Self-supplied Monitoring and Communication Integrated System in HSR," *IEEE Global Communications Conference (GLOBECOM)*, Rio de Janeiro, Brazil, December 2022.
51. Bingqing Jiang, Jun Du, Chunxiao Jiang, Yuanming Shi, Zhu Han, "Communication-Efficient Device Scheduling via Over-the-Air Computation for Federated Learning," *IEEE Global Communications Conference (GLOBECOM)*, Rio de Janeiro, Brazil, December 2022.
52. Jingyuan Liu, Zheng Chang, Geyong Min, and Zhu Han, "Incentive Mechanism Design For Federated Learning in Multi-access Edge Computing," *IEEE Global Communications Conference (GLOBECOM)*, Rio de Janeiro, Brazil, December 2022.
53. Yaoyu Zhang, Yuhan Kang, Chenye Wu, Jian Shi, Dan Wang, and Zhu Han, "Carbon Emission-Aware Storage Control via Mean Field Game Coordination," *IEEE Conference on Decision and Control*, Cancun, Mexico, December 2022.
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57. Kaiyang Chen, Yifei Zhu, Zhu Han, and Xudong Wang, "Adaptive Cross-Camera Video Analytics at the Edge," *IEEE 19th International Conference on Mobile Ad Hoc and Smart Systems (MASS)*, Denver, CO, October 2022.
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59. Zhongqi Zhao, Lei Fan, Honghao Zheng, and Zhu Han, "Quantum Computing for Cable-Routing Problem in Solar Power Plants," submitted to *IEEE Smartgridcom*, Singapore, October 2022.
60. Mingze Li, Fan Lei, and Zhu Han, "Quantum Feature Selection for Multi-class Features Based on Filter Methods," submitted to *IEEE International Conference on Quantum Computing & Engineering (QCE)*, Broomfield, CO, September 2022.

61. Yuan Zi, Shirui Wang, Pengyu Yuan, Xuqing Wu, Jiefu Chen, and Zhu Han, "Self-supervised learning for seismic swell noise removal," *International Meeting for Applied Geoscience & Energy (IMAGE)*, Houston, TX, September 2022.
62. Yuan Zi, Lei Fan, Jiefu Chen, and Zhu Han, "Active gamma-ray well logging pattern localization with reinforcement learning," *International Meeting for Applied Geoscience & Energy (IMAGE)*, Houston, TX, September 2022.
63. Kai-Chu Tsai, Ting-Jui Yao, Pin-Hao Huang, Cheng Sen Huang, Zhu Han, and Li-Chun Wang, "Deep Reinforcement Learning-Based Routing for Space-Terrestrial Networks," *Vehicular Technology Conference VTC2022-Fall*, London/Beijing/Virtual, September 2022.
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65. Minghui Min, Shuang Yang, Shiyin Li, Hongliang Zhang, Liang Xiao, Miao Pan, and Zhu Han, "Safe Reinforcement Learning-based Indoor 3D Location Privacy Protection," *IEEE/CIC International Conference on Communications in China (ICCC)*, Foshan, China, August 2022.
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312. Mengling Guan, Bo Bai, Li Wang, Shi Jin, and Zhu Han, "Joint Optimization for Computation Offloading and Resource Allocation in Internet of Things," invited, *IEEE 86th Vehicular Technology Conference, Fall*, Toronto, Canada, September 2017.
313. Xunsheng Du, Huaqing Zhang, Hien Van Nguyen, and Zhu Han, "Stacked LSTM Deep Learning Model for Resource Allocation in Vehicle-to-Vehicle Communication," *IEEE 86th Vehicular Technology Conference, Fall*, Toronto, Canada, September 2017.
314. Qiuyang Shen, Xuqing Wu, Jiefu Chen, and Zhu Han, "Quasi-Newton MCMC for Solving Geosteering Inverse Problems," *International Applied Computational Electromagnetics Society Symposium in China*, Suzhou, China, August, 2017.
315. Jingjing Wang, Chunxiao Jiang, Zhu Han, Tony Q. S. Quek, and Yong Ren, "Private Information Diffusion Control in Cyber Physical Systems: A Game Theory Perspective," invited *The 26th International Conference on Computer Communications and Networks (ICCCN)*, Vancouver, Canada, August 2017.
316. Oluwaseyi Omotere, Lijun Qian, Riku Jantti, Miao Pan, and Zhu Han, "Big RF Data Assisted Cognitive Radio Network Coexistence in 3.5GHz Band," *The 26th International Conference on Computer Communications and Networks (ICCCN 2017)*, Vancouver, Canada, August 2017.
317. Qiuyang Shen, Xuqing Wu, Jiefu Chen, Yueqin Huang, and Zhu Han, "Solving Subsurface Inverse Problem on the MapReduce Platform: A Langevin Dynamics Approach for Geosteering Inversion," *IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting*, San Diego, CA, July 2017.
318. Mohammad Aghababaie Alavijeh, Behrouz Maham, Zhu Han, and Walid Saad, "Truthful Spectrum Auction for Efficient Anti-Jamming in Cognitive Radio Networks," *22nd IEEE Symposium on Computers and Communication (ISCC 2017)*, Crete, Greece, July 2017.
319. Zijie Zheng, Lingyang Song, Zhu Han, Geoffrey Ye Li, and H. Vincent Poor, "Multi-Leader Multi-Follower Game-Based ADMM for Big Data Processing" *IEEE 18th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, Hokkaido, Japan, July 2017.
320. Qiuyang Shen, Xuqing Wu, Yueqin Huang, Jiefu Chen, Zhu Han, "Stochastic geosteering inversions by hybrid Monte Carlo method," *SPE Gulf Coast Section Emerging Engineers Symposium*, Spring, TX, June 2017.
321. Tengjiao Wang, Sicong Liu, Fang Yang, Jintao Wang, Jian Song, and Zhu Han, "Block-Sparse Compressive Sensing Based Multi-User and Signal Detection for Generalized Spatial Modulation in NOMA," *The 13th International Wireless Communications and Mobile Computing Conference*, Valencia, Spain, June 2017.

322. Xiangming Zhu, Chunxiao Jiang, Wei Feng, Linling Kuang, Zhu Han, and Jianhua Lu, "Resource Allocation in Spectrum-Sharing Cloud Based Integrated Terrestrial-Satellite Network," *The 13th International Wireless Communications and Mobile Computing Conference*, Valencia, Spain, June 2017.
323. Yunchao Gong, Li Wang, Ruoguang Li, Mei Song, and Zhu Han, "Power Allocation for Secrecy Efficiency in Full-Duplex Relay Assisted Cooperative Networks," invited, *IEEE Vehicular Technology Conference: VTC2017-Spring*, Sydney, Australia, June 2017.
324. Xiuhua Li, Peiran Wu, Xiaofei Wang, Keqiu Li, Zhu Han and Victor C. M. Leung, "Collaborative Hierarchical Caching in Cloud Radio Access Networks," *2017 Workshop on Integrating Edge Computing, Caching, and Offloading in Next Generation Networks (IECCO), INFOCOM Workshop*, Atlanta, GA, May 2017.
325. Fahira Sangare and Zhu Han, "Joint Optimization of Cognitive RF Energy Harvesting and Channel Access using Markovian Multi-Armed Bandit Problem," *IEEE International Conference on Communications, Workshop on Emerging Energy Harvesting Solutions for 5G Networks (5G-NRG)*, Paris, France, May 2017.
326. Zheng Chang, Zhongyu Wang, Xijuan Guo, Zhu Han, and Tapani Ristaniemi, "Energy Efficient and Distributed Resource Allocation for Wireless Powered OFDMA Multi-cell Networks," *International workshop on Service-oriented optimization of Green Mobile Networks*, Paris, France, May 2017.
327. Xiaoyue Wan, Liang Xiao, Qiangda Li and Zhu Han, "PHY-Layer Authentication with Multiple Landmarks with Reduced Communication Overhead," *IEEE International Conference on Communications*, Paris, France, May 2017.
328. Bin Chen, Bi Ling Zhang, Jung-Lang Yu, Yan Chen, and Zhu Han, "An Indirect Reciprocity Based Incentive Framework for Cooperative Spectrum Sensing," *IEEE International Conference on Communications*, Paris, France, May 2017.
329. Yunan Gu, Li Wang, Miao Pan, and Zhu Han, "Exploiting the Stable Fixture Matching Game for Mobile Crowd Sensing: A Local Event Sharing Framework," *IEEE International Conference on Communications*, Paris, France, May 2017.
330. Xiao Tang, Pinyi Ren and Zhu Han, "Hierarchical Power Competition for Security Enhancement in Wireless Networks," *IEEE International Conference on Communications*, Paris, France, May 2017.
331. Zhanwei Hou, He Chen, Yonghui Li, Zhu Han, and Branka Vucetic, "A Contract-based Incentive Mechanism for Energy Harvesting-based Internet of Things," *IEEE International Conference on Communications*, Paris, France, May 2017.
332. Sami Khairy, Mengqi Han, Lin X. Cai, Yu Cheng, and Zhu Han, "Enabling efficient multi-channel bonding for IEEE 802.11ac WLANs," *IEEE International Conference on Communications*, Paris, France, May 2017.
333. Hui Chen, Xiaofei Tao, Li Na, and Zhu Han, "Secrecy Performance Analysis of Hybrid Eavesdroppers System Using Stochastic Geometry and Random Matrix Theory," *IEEE International Conference on Communications*, Paris, France, May 2017.

334. Jingjing Zhao, Yuanwei Liu, Kok Keong Chai, Arumugam Nallanathan, Yue Chen, and Zhu Han, "Resource Allocation for Non-Orthogonal Multiple Access in Heterogeneous Networks," *IEEE International Conference on Communications*, Paris, France, May 2017.
335. Xianfu Chen, Huaqing Zhang, and Zhu Han, "Delay-Tolerant Resource Scheduling in Large-Scale Virtualized Radio Access Networks," *IEEE International Conference on Communications*, Paris, France, May 2017.
336. Zijie Zheng, Lingyang Song, and Zhu Han, "Bridging the Gap Between Big Data and Game Theory: A General Hierarchical Pricing Framework," *IEEE International Conference on Communications*, Paris, France, May 2017.
337. Xianfu Chen, Zhu Han, Zheng Chang, Guiliang Xue, Honggang Zhang, and Mehdi Bennis, "Adapting Downlink Power in Fronthaul-Constrained Hierarchical Software-Defined RANs," *IEEE Wireless Communications and Networking Conference*, San Francisco, CA, March 2017.
338. Hui Chen, Xiaofeng Tao, Na Li, and Zhu Han, "Ergodic Secrecy Rate of Randomly Deployed Cellular Networks Enhanced by Artificial Noise," *IEEE Wireless Communications and Networking Conference*, San Francisco, CA, March 2017.
339. Tingting Liu, Jun Li, Feng Shu, and Zhu Han, "Resource Trading for a Small-Cell Caching System: A Contract-Theory Based Approach," *IEEE Wireless Communications and Networking Conference*, San Francisco, CA, March 2017.
340. Yanru Zhang, Nguyen H. Tran, Dusit Niyato, and Zhu Han, "Multi-Dimensional Payment Plan in Fog Computing with Moral Hazard", invited, *15th IEEE International Conference on Communication Systems (ICCS)*, **Best Paper Award**, Shenzhen, China, December 2016.
341. Radwa Sultan, Lingyang Song, Karim G. Seddik, and Zhu Han, "Full Duplex in Massive MIMO Systems: Analysis and Feasibility," *IEEE Globe Communication Conference (Globecom) workshop on Full Duplex Wireless Communications (FDEX)*, Washington DC, December 2016.
342. Xu Ma, Fang Yang, Sicong Liu, Jian Song, and Zhu Han, "Training Sequence Design and Optimization for Structured Compressive Sensing Based Channel Estimation in Massive MIMO Systems," *IEEE Globe Communication Conference (Globecom) Workshops: 5th International Workshop on Emerging Technologies for 5G Wireless Cellular Networks*, Washington DC, December 2016.
343. Huaqing Zhang, Xianfu Chen, and Zhu Han, "A Zero-Determinant Approach for Power Control of Multiple Wireless Operators in LTE Unlicensed," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
344. Jingzhi Hu, Yun Liao, Lingyang Song, and Zhu Han, "Power-throughput Tradeoff in Full-duplex WiFi Networks," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
345. Duy H. N. Nguyen, Yanru Zhang, and Zhu Han, "A Contract-Theoretic Approach to Spectrum Resource Allocation in Wireless Virtualization," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
346. Xiao Tang, Pinyi Ren, and Zhu Han, "Iterative Power Optimization Towards Secure Multi-Channel Full-Duplex Communication," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.

347. Dinh Thai Hoang, Dusit Niyato, Ping Wang, Dong In Kim, and Zhu Han, "The Tradeoff Analysis in RF-Powered Backscatter Cognitive Radio Networks," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
348. Huaqing Zhang, Wenbo Ding, Jian Song, and Zhu Han, "A Hierarchical Game Approach for Visible Light Communication and Multi-Hop D2D Heterogeneous Network," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
349. Yanru Zhang, Chunxiao Jiang, Lingyang Song, Walid Saad, Zaher Dawy, and Zhu Han, "Complementary Investment of Infrastructure and Service Providers in Wireless Network Virtualization," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
350. Zheng Chang, Zhongyu Wang, Xijuan Guo, Zhu Han, Tapani Ristaniemi, "Energy Efficient Resource Allocation for Wireless Power Transfer Enabled Massive MIMO System," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
351. Sai Mounika Errapotu, Jingyi Wang, Zaixin Lu, Wei Li, Miao Pan, and Zhu Han, "Bidding Privacy Preservation for Dynamic Matching Based Spectrum Trading," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
352. Yunan Gu, Lin X. Cai, Miao Pan, Lingyang Song, and Zhu Han, "Exploiting the Stable Fixture Matching Game for Content Sharing in D2D-based LTE-V2X Communications," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
353. Sicong Liu, Fang Yang, Wenbo Ding, Jian Song, and Zhu Han, "Impulsive Noise Cancellation for MIMO-OFDM PLC Systems: a Structured Compressed Sensing Perspective," *IEEE Globe Communication Conference (Globecom)*, Washington DC, December 2016.
354. Wei Huang, Wei Chen, Bo Bai, Shidong Zhou, and Zhu Han, "Physical Layer Security Game With Full-Duplex Proactive Eavesdropper," *IEEE Globalsip*, Washington DC, December 2016.
355. Fahira Sangare, Duy Huu Ngoc Nguyen, Yong Xiao, Zhu Han, "Opportunistic Sensing For Joint Energy Harvesting And Channel Access", *IEEE Globalsip*, Washington DC, December 2016.
356. Jingbo Tan, Fang Yang, Changyong Pan, Jian Song, and Zhu Han, "Multiple Line Outage Detection for Smart Grid: A Block-Wise Compressive Sensing Perspective," *IEEE SmartGridComm*, Sydney, Australia, November, 2016.
357. Hung Khanh Nguyen, Amin Khodaei, and Zhu Han, "Distributed Algorithms for Peak Ramp Minimization Problem in Smart Grid," *IEEE SmartGridComm*, Sydney, Australia, November, 2016.
358. Qiuyang Shen, Jiefu Chen, and Zhu Han, "Total Variation Denoising of Azimuthal Resistivity Inversion in Geosteering," *SEG Annual Meeting*, Dallas, TX, October 2016.
359. Ruoguang Li, Li Wang, Mei Song, and Zhu Han, "Bit Error Rate Analysis in Hybrid Full Duplex/Half Duplex Relay Cooperative Networks," *8th International*

Conference on Wireless Communications and Signal Processing, Yangzhou, China, October 2016.

360. Yangqing Li, Saurabh Prasad, Wei Chen, Changchuan Yin, and Zhu Han, "An Approximate Message Passing Approach For Compressive Hyperspectral Imaging Using A Simultaneous Low-Rank And Joint-Sparsity Prior," *8th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing*, Los Angeles, August 2016.
361. Meng Li, Yanru Zhang, Li Wang, Mei Song, and Zhu Han, "Incentive Design for Collaborative Jamming Using Contract Theory in Physical Layer Security," *IEEE International Conference on Communications in China (ICCC)*, Chengdu, China, July 2016.
362. Dusit Niyato, Lu Xiao, Ping Wang, Dong In Kim, and Zhu Han, "Distributed Wireless Energy Scheduling for Wireless Powered Sensor Networks," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
363. Chunxiao Jiang, Haijun Zhang, Zhu Han, Julian Cheng, Yong Ren, and Lajos Hanzo, "On the Outage Probability of Information Sharing in Cognitive Vehicular Networks," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
364. Jun Du, Chunxiao Jiang, Yi Qian, Zhu Han, and Yong Ren, "Traffic Prediction Based Resource Configuration in Space-based Systems," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
365. Ruozhou Yu, Shuang Qin, Mehdi Bennis, Xianfu Chen, Gang Feng, Zhu Han, Guoliang Xue, "Enhancing Software-Defined RAN with Collaborative Caching and Scalable Video Coding," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
366. Nguyen H. Tran, Chuan Pham, Shaolei Ren, Zhu Han, and Choong Seon Hong, "Coordinated Power Reduction in Multi-Tenant Colocation Datacenter: An Emergency Demand Response Study," *IEEE International Conference on Communications (ICC)*, **Best Paper Award**, Kuala Lumpur, Malaysia, May 2016.
367. Jingjing Wang, Chunxiao Jiang, Longxiang Gao, Shui Yu, Zhu Han, and Yong Ren, "Complex Network Theoretical Analysis on Information Dissemination over Vehicular Networks," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
368. Hongliang Zhang, Yusheng Ji, Lingyang Song, and Han Zhu, "Hypergraph Based Resource Allocation for Cross-cell Device-to-Device Communications," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
369. Huaqing Wu, Li Wang, Tommy Svensson, and Zhu Han, "Resource Allocation for Wireless Caching in Socially-Enabled D2D Communications," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
370. Yong Xiao, Zixiang Xiong, Dusit Niyato, Zhu Han, and Luiz A. DaSilva, "Full-Duplex Machine-to-Machine Communication for Wireless-Powered Internet-of-Things," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.

371. Duy H. N. Nguyen, Long Bao Le, and Zhu Han, "Optimal Uplink and Downlink Channel Assignment in a Full-Duplex Multiuser System," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
372. Huaqing Zhang, Yong Xiao, Shengrong Bu, Dusit Niyato, Richard Yu, and Zhu Han, "Fog Computing in Multi-Tier Data Center Networks: A Hierarchical Game Approach," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
373. Xiao Tang, Pinyi Ren, and Zhu Han, "Combating Full-Duplex Active Eavesdropper: A Game-Theoretic Perspective," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
374. Zijie Zheng, Lingyang Song, Dusit Niyato, Zhu Han, "Resource Allocation in Wireless Powered Relay Networks Through A Nash Bargaining Game," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
375. Dusit Niyato, Mohammad Abu Alsheikh, Ping Wang, Dong In Kim, and Zhu Han, "Market Model and Optimal Pricing Scheme of Big Data and Internet of Things (IoT)," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
376. Zheng Chang, Yunan Gu, Zhu Han, Xianfu Chen, and Tapani Ristaniemi, "Context-Aware Data Caching for 5G Heterogeneous Small Cells Networks," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
377. Mingxin Zhou, Huanyu Zhang, Shengli Zhang, Lingyang Song, Yonghui Li, and Zhu Han, "Design and Implementation of Device-to-Device Software-Defined Networks," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
378. Qian Yang, Yi Zhang, Hui-Ming Wang, and Zhu Han, "Transmit Optimization for Secure MIMO RFID Wireless Communication," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, May 2016.
379. Chunxiao Jiang, Yaodong Zhang, Jian Yuan, Yong Ren, and Zhu Han, "Cooperative WiFi Management: Nash Bargaining Solution and Implementation," *IEEE Wireless Communications and Networking Conference*, Doha, Qatar, April 2016.
380. Chunxiao Jiang, Zhu Han, Yong Ren, and Lajos Hanzo, "Information Credibility Equilibrium of Cooperative Networks," *IEEE Wireless Communications and Networking Conference*, Doha, Qatar, April 2016.
381. Yangqing Li, Wei Chen, Changchuan Yin, and Zhu Han, "An Approximate Message Passing Approach For Tensor-Based Seismic Data Interpolation With Randomly Missing Traces," *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Shanghai, China, March 2016.
382. Radwa Sultan, Lingyang Song, Karim G. Seddik, and Zhu Han, "Users Association in Small Cell Networks with Massive MIMO," invited *International Conference on Computing, Networking and Communications*, Kauai, HI, February 2016
383. Yong Xiao, Zixiang Xiong, Dusit Niyato, Zhu Han, "Distortion Minimization with Adaptive Digital and Analog Transmission for Wireless Sensor Networks with Energy Harvesting," invited, *IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Orlando, FL, December 2015.

384. Yue Meng, Chunxiao Jiang, Lei Xu, Yong Ren, and Zhu Han, "Wireless Network Recommendation System in Heterogeneous Networks," *IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Orlando, FL, December 2015.
385. Xianfu Chen, Zhu Han, Honggang Zhang, Guoliang Xue, Mehdi Bennis, and Tao Chen, "Foresighted Resource Scheduling in Software-defined Radio Access Networks with Bursty Traffic," *IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Orlando, FL, December 2015.
386. Yun Liao, Boya Di, Kaigui Bian, Lingyang Song, Dusit Niyato, and Zhu Han, "Cross-layer Protocol Design for Distributed Full-duplex Network," *IEEE Global Communications Conference*, San Diego, CA, December 2015.
387. Yue Meng, Chunxiao Jiang, Zhu Han, Tony Q. S. Quek, and Yong Ren, "Learning in Small Cell Networks: A Non-Bayesian Social Interactive Model," *IEEE Global Communications Conference*, San Diego, CA, December 2015.
388. Yanru Zhang, Lanchao Liu, Lingyang Song, Miao Pan, Zaher Dawy, and Zhu Han, "Incentive Mechanism in Crowdsourcing by Tournament," *IEEE Global Communications Conference*, San Diego, CA, December 2015.
389. Yun Hu, Hongyan Li and Zhu Han, "Delay Bound Analysis Using Martingale for Multimedia DTN under Heterogeneous Network for High-Speed Trains," *IEEE Global Communications Conference*, San Diego, CA, December 2015.
390. Yunan Gu, Yanru Zhang, Lin X. Cai, Miao Pan, Lingyang Song, and Zhu Han, "Exploiting Student-Project Allocation Matching for Spectrum Sharing in LTE-Unlicensed," *IEEE Global Communications Conference*, San Diego, CA, December 2015.
391. Yong Xiao, Dusit Niyato, Zhu Han, and Luiz A. DaSilva, "Joint Optimization for Power Scheduling and Transfer in Energy Harvesting Communication Systems," *IEEE Global Communications Conference*, San Diego, CA, December 2015.
392. Huaqing Zhang, Yong Xiao, Lin X. Cai, Lingyang Song, Niyato Dusit, and Zhu Han, "Hierarchical Competition for LTE Unlicensed using Stackelberg Game and Bargaining," *IEEE Global Communications Conference*, San Diego, CA, December 2015.
393. Ali Arab, Amin Khodaei, Suresh Khator, and Zhu Han, "Transmission Network Restoration Considering AC Power Flow Constraints," *IEEE International Conference on Smart Grid Communications (SmartGridComm)*, Miami, FL, November 2015.
394. Yangqing Li, Wei Chen, Changchuan Yin, and Zhu Han, "Approximate Message Passing for Sparse Recovering of Spatially and Temporally Correlated Data," invited *IEEE International Conference on Communications in China*, Shenzhen, China, November 2015.
395. Zilong Wu, Li Wang, Giuseppe Araniti, and Zhu Han, "Exploiting Social-Interest Interactions on User Clustering and Content Dissemination in Device-to-Device Communications," invited *IEEE International Conference on Communications in China*, Shenzhen, China, November 2015.
396. Yingyu Li, Yifang Zhu, Wotao Yin, Yang Liu, Guangming Shi, and Zhu Han, "Prediction of High Resolution Spatial-temporal Air Pollutant Map from Big Data

- Sources,” *The 1st International Conference on Big Data Computing and Communications Big Data (BigCom2015)*, Taiyuan, China, August, 2015.
397. Yanru Zhang, Yunan Gu, Miao Pan, Zaher Dawy, Lingyang Song, and Zhu Han, “Financing Contract with Adverse Selection and Moral Hazard for Spectrum Trading in Cognitive Radio Networks,” invited, *Third IEEE China Summit and International Conference on Signal and Information Processing (ChinaSIP 2015)*, Chengdu, China, July 2015.
 398. Yun Liao, Kaigui Bian, Liangyang Song, and Zhu Han, “Robust Cooperative Spectrum Sensing in Full-duplex Cognitive Radio Networks,” *International Conference on Ubiquitous and Future Networks (ICUFN 2015)*, Japan, July 2015.
 399. Yun Liao, Kaigui Bian, Lingyang Song, and Zhu Han, “Full-duplex WiFi: Achieving Simultaneous Sensing and Transmission for Future Wireless Networks,” poster session of *IEEE Mobihoc*, Hangzhou, China, June 2015.
 400. Ali Arab, Suresh K. Khator, Qianmei Feng, and Zhu Han, “Control Theoretic Scheduling of Angiography for Implanted Stents in Human Arteries,” *Annual Industrial and Systems Engineering Research Conference*, Nashville, TN, June 2015.
 401. Radwa Aly Sultan, Lingyang Song, Karim G. Seddik, Yonghui Li, and Zhu Han, “Mode Selection, User Pairing, Subcarrier Allocation and Power Control in Full-Duplex OFDMA HetNets,” *IEEE International Conference on Communications Workshop, 4th International Workshop on Small Cell and 5G Networks (Small-Nets)*, London, UK, June, 2015.
 402. Yun Liao, Tianyu Wang, Kaigui Bian, Lingyang Song, and Zhu Han, “Decentralized Dynamic Spectrum Access in Full-Duplex Cognitive Radio Networks,” *IEEE International Conference on Communications*, London, UK, June, 2015 **Best Paper Award**.
 403. Dong Wang, Bo Bai, Wei Chen, and Zhu Han, “Secure Green Communication for Amplify-and-Forward Relaying with Eavesdroppers,” *IEEE International Conference on Communications*, London, UK, June, 2015.
 404. Yong Xiao, Zhu Han, Dusit Niyato and Chau Yuen, “Bayesian Reinforcement Learning for Energy Harvesting Communication Systems with Uncertainty,” *IEEE International Conference on Communications*, London, UK, June, 2015.
 405. Francesco Chiti, Romano Fantacci, Enrico Dei, and Zhu Han, “Context Aware Clustering in VANETs: a Game Theoretic Perspective,” *IEEE International Conference on Communications*, London, UK, June, 2015.
 406. Dusit Niyato, Ping Wang, Dong In Kim, Zhu Han, and Joseph Chee Ming Teo, “User’s Deception Mechanisms against Jammers in Wireless Energy Harvesting Networks,” *IEEE International Conference on Communications*, London, UK, June, 2015.
 407. Xiong Zhou, Suili Feng, Zhu Han, and Yuan Liu, “Distributed User Association and Interference Coordination in HetNets Using Stackelberg Game,” *IEEE International Conference on Communications*, London, UK, June, 2015.
 408. Dong Wang, Bo Bai, Wei Chen, and Zhu Han, “Energy Efficiency Maximization for Secure Data Transmission over DF Relay Networks,” *IEEE International Conference on Communications*, London, UK, June, 2015.

409. Dusit Niyato, Ping Wang, Dong In Kim, and Zhu Han, "Content Messenger Selection and Wireless Energy Transfer Policy in Mobile Social Networks," *IEEE International Conference on Communications*, London, UK, June, 2015.
410. Dusit Niyato, Ping Wang, Dong In Kim, Zhu Han, and Lu Xiao, "Game Theoretic Modeling of Jamming Attack in Wireless Powered Communication Networks," *IEEE International Conference on Communications*, London, UK, June, 2015.
411. He Chen, Yonghui Li, Zhu Han, and Branka Vucetic, "A Stackelberg Game-Based Energy Trading Scheme for Power Beacon-Assisted Wireless-Powered Communication," *40th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Brisbane, Australia, April 2015.
412. Dusit Niyato, Ping Wang, Dong In Kim, Zhu Han, and Lu Xiao, "Performance Analysis of Delay-Constrained Wireless Energy Harvesting Communication Networks under Jamming Attacks," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.
413. Tianyu Wang, Lingyang Song, and Zhu Han, "Dynamic FemtoCaching for Mobile Users," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.
414. Joseph Kamto, Lijun Qian, Wei Li, and Zhu Han, "Biconnected Tree for Robust Data Collection in Advanced Metering Infrastructure," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.
415. Ruizhou Ding, Tianyu Wang, Lingyang Song, Zhu Han, and Jianjun Wu, "Roadside-Unit Caching in Vehicular Ad Hoc Networks for Efficient Popular Content Delivery," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.
416. Erte Pan, Husheng Li, Lingyang Song, and Zhu Han, "Kernel-Based Non-parametric Clustering for Load Profiling of Big Smart Meter Data," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.
417. Lanchao Liu, Xianfu Chen, Mehdi Bennis, Guoliang Xue, and Zhu Han, "A Distributed ADMM Approach for Mobile Data Offloading in Software Defined Network," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.
418. Yanru Zhang, Yunan Gu, Lanchao Liu, Miao Pan, Zaher Dawy, and Zhu Han, "Incentive Mechanism in Crowdsourcing with Moral Hazard," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.
419. Yunan Gu, Yanru Zhang, Miao Pan, and Zhu Han, "Student Admission Matching based Content-Cache Allocation," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.
420. Fahira Sangare, Ali Arab, Miao Pan, Lijun Qian, Suresh Khator, and Zhu Han, "RF Energy Harvesting for WSNs via Dynamic Control of Unmanned Vehicle Charging," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.
421. Huaqing Zhang, Dusit Niyato, Lingyang Song, Tao Jiang, and Zhu Han, "Equilibrium Analysis for Zero-Determinant Strategy in Resource Management of Wireless Network," *IEEE Wireless Communications and Networking Conference*, New Orleans, LA, March 2015.

422. Lanchao Liu and Zhu Han, "Multi-Block ADMM for Big Data Optimization in Smart Grid," invited, *International Conference on Computing, Networking and Communications*, Anaheim, CA, February 2015.
423. Ramy E. Ali, Fadel F. Digham, Karim G. Seddik, Mohammed Nafie, and Zhu Han, "A Probabilistic MAC for Cognitive Radio Systems with Energy Harvesting Nodes," *IEEE globalsip*, Atlanta, December, 2014.
424. Husheng Li and Zhu Han, "Communication Requirement for Distributed Statistical Machine Learning with Application in Waveform Cognition," *IEEE globalsip*, Atlanta, December, 2014.
425. Erte Pan and Zhu Han, "Non-parametric Bayesian Learning with Deep Learning Structure and Its Applications in Wireless Networks," *IEEE globalsip*, Atlanta, December, 2014.
426. Radwa Aly Sultan, Lingyang Song, and Zhu Han, "Impact of Full Duplex on Resource Allocation for Small Cell Networks," *IEEE globalsip*, Atlanta, December, 2014.
427. Nguyen H. Tran, Hoang Dai Tran, Long Bao Le, Zhu Han, and Choong Seon Hong, "Load Balancing and Pricing for Spectrum Access Control in Cognitive Radio Networks," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
428. Bidushi Barua, Zaheer Khan, Zhu Han, Matti Latva-aho, and Marcos Katz, "On the Selection of Best Devices for Cooperative Wireless Content Delivery," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
429. Lanchao Liu, Shaolei Ren, and Zhu Han, "Scalable Workload Management for Water Efficiency in Data Centers," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
430. Yawei Pang, Yanru Zhang, Yunan Gu, Miao Pan, Pan Li and Zhu Han, "Efficient Data Collection for Wireless Rechargeable Sensor Clusters in Harsh Terrains Using UAVs," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
431. Yong Xiao, Zhu Han, and Luiz A. DaSilva, "Opportunistic Relay Selection for Cooperative Energy Harvesting Communication Networks," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
432. Erte Pan, Miao Pan, Zhu Han, and Vernaldo Wright, "Mobile Trace Inference Based on Tensor Voting," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
433. Huaqing Zhang, Dusit Niyato, Lingyang Song, Tao Jiang, and Zhu Han, "Zero-Determinant Strategy in Cheating Management of Wireless Cooperation," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
434. Yun Liao, Tianyu Wang, Lingyang Song, and Zhu Han, "Listen-and-Talk: Full-duplex Cognitive Radio Networks," *IEEE Global Communications Conference*, December, Austin, TX, 2014 **Best Paper Award**.
435. Rakpong Kaewpuang, Dusit Niyato, Ping Wang, Zhu Han, and Rongxing Lu, "Optimal Decentralized Security Software Deployment in Multihop Wireless Networks," *IEEE Global Communications Conference*, December, Austin, TX, 2014.

436. Yunan Gu, Yanru Zhang, Miao Pan, and Zhu Han, "Cheating in Matching of Device to Device Pairs in Cellular Networks," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
437. Husheng Li and Zhu Han, "Distributed Source Coding for Controlling Cyber Physical Systems with Application in Smart Grids," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
438. Muhammad Ejaz Ahmed, Ju Bin Song, and Zhu Han, "Mitigating Malicious Attacks using Bayesian Nonparametric Clustering in Collaborative Cognitive Radio Networks," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
439. Yanru Zhang, Yunan Gu, Miao Pan, and Zhu Han, "Distributed Matching Based Spectrum Allocation in Cognitive Radio Networks," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
440. Huaqing Zhang, Mehdi Bennis, Luiz A. DaSilva, and Zhu Han, "Multi-leader Multi-follower Stackelberg Game among Wi-Fi, Small Cell and Macrocell Networks," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
441. Huaqing Zhang, Fei Li, Niyato Dusit, Lingyang Song, Tao Jiang, and Zhu Han, "Zero-determinant Strategy in Power Control of Small Cell Network," invited, *IEEE International Conference on Communication Systems (ICCS)*, Macau, China, November 2014.
442. Jia Hao, Hongliang Zhang, Lingyang Song, and Zhu Han, "Graph-based Resource Allocation for Device-to-Device Communications Aided Cellular Network," *IEEE International Conference on Communications in China (ICCC)*, Shanghai, China, October 2014.
443. Tian Zhang, Wei Chen, Zhu Han, and Zhigang Cao, "Electric Vehicle Charging Scheduling Under Local Renewable Energy and Stochastic Grid Power Price", *IEEE SmartGridComm*, Venice, Italy, October, 2014.
444. Dusit Niyato, Ping Wang, Peter Han Joo Chong, Zhu Han and Dong In Kim, "Optimal Energy Management Policy of a Mobile Cloudlet with Wireless Energy Charging", *IEEE SmartGridComm*, Venice, Italy, October, 2014.
445. Ali Arab, Eylem Tekin, Amin Khodaei, Suresh Khator, and Zhu Han, "Dynamic Maintenance Scheduling for Power Systems Incorporating Hurricane Effects", *IEEE SmartGridComm*, Venice, Italy, October, 2014.
446. Wenbo Wang, Andres, Kwasinski, and Zhu Han, "Power Allocation with Stackelberg Game in Femtocell Networks: A Self-Learning Approach," *IEEE International Conference on Sensing, Communication, and Networking (SECON)*, Singapore, July 2014.
447. Nguyen H. Tran, Shaolei Ren, Zhu Han, Sung Man Jang, Seung Il Moon, and Choong Seon Hong, "Demand Response of Data Centers: A Real-time Pricing Game between Utilities in Smart Grid," *USENIX Feedback Computing workshop*, Philadelphia, PA, June 2014.
448. Serveh Shalmashi, Guowang Miao, Zhu Han, and Slimane Ben Slimane, "Interference Constrained Device-to-Device Communications," *IEEE International Conference on Communications*, Sydney, Australia, June 2014.

449. Wasiu Opeyemi Oduola, Xiangfang Li, Lijun Qian, and Zhu Han, "Power Control for Device-to-Device Communications as an Underlay to Cellular System," *IEEE International Conference on Communications*, Sydney, Australia, June 2014.
450. Siavash Bayat, Yonghui Li, Zhu Han, Mischa Dohler, and Branka Vucetic, "Distributed Massive Wireless Access for Cellular Machine-to-Machine Communication," *IEEE International Conference on Communications*, Sydney, Australia, June 2014.
451. Zijie Zheng, Tianyu Wang, Lingyang Song, and Zhu Han, "Efficient Resource Allocation for Mobile Social Networks in D2D Communication Underlying Cellular Networks," *IEEE International Conference on Communications*, Sydney, Australia, June 2014.
452. Yue Sun, Tianyu Wang, Lingyang Song, and Zhu Han, "Efficient Resource Optimization for Heterogeneous Smart-Building Networks," *IEEE International Conference on Communications*, Sydney, Australia, June 2014.
453. Hang Zhang, Tianyu Wang, Lingyang Song, and Zhu Han, "Radio Resource Allocation for Physical-Layer Security in Device to Device Underlay Communications," *IEEE International Conference on Communications*, Sydney, Australia, June 2014.
454. Xiaofei Wang, Min Chen, Zhu Han, Dapeng Wu, Taekyoung Kwon, "TOSS: Traffic Offloading by Social Network Service-Based Opportunistic Sharing in Mobile Social Networks," *the 33rd Annual IEEE International Conference on Computer Communications (INFOCOM)*, Toronto, Canada, April-May, 2014.
455. Walid Saad, Zhu Han, Rong Zheng, Merouane Debbah, and H. Vincent Poor, "A College Admissions Game for Uplink User Association in Wireless Small Cell Networks," *the 33rd Annual IEEE International Conference on Computer Communications (INFOCOM)*, Toronto, Canada, April-May, 2014.
456. Hongliang Zhang, Lili Ma, Lingyang Song, and Zhu Han, "Wireless Device-to-Device Hypergraph Optimization," *IEEE INFOCOM, Student Activities*, Toronto, Canada, April-May, 2014.
457. Zijie Zheng, Tianyu Wang, Lingyang Song, Zhu Han, and Jianjun Wu, "Social-Aware Multi-File Dissemination in Device-to-Device Overlay Networks," *IEEE INFOCOM, Student Activities*, Toronto, Canada, April-May, 2014.
458. Siavash Bayat, Yonghui Li, Zhu Han, Mischa Dohler, and Branka Vucetic, "Distributed Data Aggregation in Machine-to-Machine Communication Networks Based on Coalitional Game," *IEEE Wireless Communications and Networking Conference*, Istanbul, Turkey, April 2014.
459. Wenbo Wang, Andres Kwasinski, and Zhu Han, "A Routing Game in Cognitive Radio Networks against Routing-Toward-Primary-User Attacks," *IEEE Wireless Communications and Networking Conference*, Istanbul, Turkey, April 2014.
460. Wenbo Wang, Andres Kwasinski, and Zhu Han, "Routing Based on Layered Stochastic Games for Multi-Hop Cognitive Radio Networks," *IEEE Wireless Communications and Networking Conference*, Istanbul, Turkey, April 2014.
461. Alireza Eshraghi, Behrouz Maham, Zhu Han, and Morteza Banagar, "Efficiency and Coverage Improvement of Active RFID Two-Hop Relay Systems," *IEEE Wireless Communications and Networking Conference*, Istanbul, Turkey, April 2014.

462. Lanchao Liu, Qing Ling, and Zhu Han, "Decentralized Gauss-Newton Method For Nonlinear Least Squares On Wide Area Network," invited, *The 2nd Radio and Antenna Days of the Indian Ocean (RADIO)*, Mauritius, April 2014.
463. Ali Arab, Amin Khodaei, Zhu Han, and Suresh Khator, "Optimal Restoration Planning for Smart Grid under Natural Disaster," *2014 UT Energy Forum Texas Energy Research Challenge*, Austin, February, 2014.
464. Boya Di, Tianyu Wang, Lingyang Song, and Zhu Han, "Incentive Mechanism for Collaborative Smartphone Sensing using Overlapping Coalition Formation Games," *IEEE Globe Communication Conference (Globecom)*, Atlanta, GA, December 2013.
465. Yanru Zhang, Lingyang Song, Walid Saad, Zaher Dawy, and Zhu Han, "Exploring Social Ties for Enhanced Device-to-Device Communications in Wireless Networks," *IEEE Globe Communication Conference (Globecom)*, Atlanta, GA, December 2013.
466. Mohammad Esmalifalak, Nam Tuan Nguyen, Rong Zheng, and Zhu Han, "Detecting Stealthy False Data Injection Using Machine Learning in Smart Grid," *IEEE Globe Communication Conference (Globecom)*, Atlanta, GA, December 2013.
467. Najmeh Forouzandehmehr, Samir M. Perlaza, Zhu Han, and H. Vincent Poor, "A Satisfaction Game for Heating, Ventilation and Air Conditioning Control of Smart Buildings," *IEEE Globe Communication Conference (Globecom)*, Atlanta, GA, December 2013.
468. Zaheer Khan, Marcos Katz, Zhu Han, Angeliki Alexiou and Luiz A. DaSilva, "Autonomous Opportunistic Spectrum Access Strategies: Benefits of Adaptive Strategies," *31ST Wireless World Research Forum Meeting*, Vancouver, Canada, October, 2013.
469. Lanchao Liu, Amin Khodaei, Wotao Yin, and Zhu Han, "A Distribute Parallel Approach for Big Data Scale Optimal Power Flow with Security Constraints," *IEEE SmartGridComm*, Vancouver, Canada, October 2013.
470. Qiumin Dong, Dusit Niyato, Ping Wang, and Zhu Han, "An Adaptive Scheduling of PHEV Charging: Analysis under Imperfect Data Communication," *IEEE SmartGridComm*, Vancouver, Canada, October 2013.
471. Zhenghao Zhang, Husheng Li, Ju Bin Song, Zhu Han, Gaoyong Luo, and Wenjing Hu, "Wireless Communication Aided Differential Relay Protection in Smart Grids: A Concerted Blitzkrieg," *IEEE SmartGridComm*, Vancouver, Canada, October 2013.
472. Husheng Li, Zhu Han, and Ju Bin Song, "Stabilizing Hybrid Data Traffics in Cyber Physical Systems with Case Study on Smart Grid," *IEEE SmartGridComm*, Vancouver, Canada, October 2013.
473. Husheng Li, Zhu Han, and Ju Bin Song, "Blind Control Synthesis for Large Dynamical Systems with Application in Smart Grids: A Non-equilibrium Statistical Mechanics Approach," *IEEE SmartGridComm*, Vancouver, Canada, October 2013.
474. Hang Zhang, Tianyu Wang, Lingyang Song, and Zhu Han, "Turning Interference Weakness into PHY Security Enhancement for Cognitive Radio Networks," *2013 International Conference on Wireless Communications and Signal Processing (WCSP)*, Hangzhou, China, October, 2013.

475. Ali Arab, Amin Khodaei, Suresh Khator, Zhu Han, and Qifeng Ding, "Efficient Post-Hurricane Transmission Network Restoration to Minimize Customer Interruption," *IEEE Great Lakes Symposium on Smart Grid*, Chicago, IL, September, 2013.
476. Behrouz Maham, Walid Saad, Merouane Debbah, and Zhu Han, "Interference Analysis for Spatial Reused Cooperative Multihop Wireless Networks," *IEEE 2013 IEEE 22nd International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Lingdon, UK, September 2013.
477. Hongliang Zhang, Tianyu Wang, Lingyang Song, and Zhu Han, "Optimization of Joint Resource Allocation and Power Control for D2D Communications Networks," *IEEE International Conference on Communications in China (ICCC), D2D Workshop*, Xi'an, China, August 2013.
478. Yanru Zhang, Erte Pan, Lingyang Song, Walid Saad, Zaher Dawy, and Zhu Han, "Social Network Enhanced Device-to-Device Communication Underlying Cellular Networks," *IEEE International Conference on Communications in China (ICCC), D2D Workshop*, Xi'an, China, August 2013.
479. Samir M. Perlaza, Arsenia Chorti, H. Vincent Poor, and Zhu Han, "On the Impact of Network-State Knowledge on the Feasibility of Secrecy," *IEEE International Symposium on Information Theory (ISIT)*, Istanbul, Turkey, July 2013.
480. Tamseel Mahmood Syed, Nghi H. Tran, Tuyen X. Tran, and Zhu Han, "Precoder Design for a Single-Relay Non-Orthogonal AF System based on Mutual Information," *The 9th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC 2013)*, Cagliari, Italy, July 2013.
481. Samir M. Perlaza, Arsenia Chorti, H. Vincent Poor, and Zhu Han, "On the Trade-offs between Network State Knowledge and Secrecy," invited, *2013 Global Wireless Summit*, Atlantic City, NJ, June 2013.
482. Tina Mathews and Zhu Han, "USRP2 Implementation of Compressive Sensing Based Channel Estimation in OFDM," invited, *the Third International Conference on Communications and Information Technology (ICCIT-2013)*, Beirut, Lebanon, June 2013.
483. Lanchao Liu, Mohammad Esmalifalak, and Zhu Han, "Detection of False Data Injection in Power Grid Exploiting Low Rank and Sparsity," *IEEE International Conference on Communications*, Budapest, Hungary, June 2013.
484. Tian Zhang, Wei Chen, Zhu Han, and Zhigang Cao, "Coalitional Game Theoretic Approach for Cooperative Transmission in Vehicular Networks," *IEEE International Conference on Communications*, Budapest, Hungary, June 2013.
485. Tianyu Wang, Lingyang Song, Zhu Han, Zhaohua Lu, and Liujun Hu, "Popular Content Distribution in Vehicular Networks using Coalition Formation Games," *IEEE International Conference on Communications*, Budapest, Hungary, June 2013.
486. Feiran Wang, Chen Xu, Lingyang Song, Qun Zhao, Xiaoli Wang, and Zhu Han, "Energy-Aware Resource Allocation for Device-to-Device Underlay Communication," *IEEE International Conference on Communications*, Budapest, Hungary, June 2013.

487. Mohammad Aghababaie Alavijeh, Behrouz Maham, Zhu Han, and Said Nader Esfahani, "Efficient Anti-Jamming Truthful Spectrum Auction among Secondary Users in Cognitive Radio Networks," *IEEE International Conference on Communications*, Budapest, Hungary, June 2013.
488. Rongqing Zhang, Lingyang Song, Zhu Han, Xiang Cheng, and Bingli Jiao, "Distributed Resource Allocation for Device-to-Device Communications Underlying Cellular Networks," *IEEE International Conference on Communications*, Budapest, Hungary, June 2013.
489. Qiumin Dong, Dusit Niyato, Ping Wang, and Zhu Han, "Deferrable Load Scheduling Optimization under Power Price Information Attacks in Smart Grid," *IEEE Wireless Communications and Networking Conference*, Shanghai, China, April 2013.
490. Nam Tuan Nguyen, Rong Zheng, and Zhu Han, "UMLI: An Unsupervised Mobile Locations Extraction Approach with Incomplete Data," *IEEE Wireless Communications and Networking Conference*, **Best Paper Award**, Shanghai, China, April 2013.
491. Muhammad Ejaz Ahmed, Ju Bin Song, and Zhu Han, "Traffic Pattern-Based Reward Maximization for Secondary User in Dynamic Spectrum Access," *IEEE Wireless Communications and Networking Conference*, Shanghai, China, April 2013.
492. Chen Wang, Yuan Liu, Meixia Tao, Zhu Han, and Dong In Kim, "Stackelberg Game for Spectrum Reuse in the Two-Tier LTE Femtocell Network," *IEEE Wireless Communications and Networking Conference*, Shanghai, China, April 2013.
493. Yanbo Ma, Chen Wang, Meixia Tao, and Zhu Han, "Content-Aware Transmission with Delay Threshold in Heterogeneous Networks," *IEEE Wireless Communications and Networking Conference*, Shanghai, China, April 2013.
494. Feiran Wang, Lingyang Song, Zhu Han, Qun Zhao, and Xiaoli Wang, "Joint Scheduling and Resource Allocation for Device-to-Device Underlay Communication," *IEEE Wireless Communications and Networking Conference*, Shanghai, China, April 2013.
495. Tianyu Wang, Lingyang Song, Zhu Han, and Walid Saad, "Overlapping Coalitional Games for Collaborative Sensing in Cognitive Radio Networks," *IEEE Wireless Communications and Networking Conference*, Shanghai, China, April 2013.
496. Ziqiang Feng, Lingyang Song, Zhu Han, Dusit Niyato, and Xiaowu Zhao, "Cell Selection in Two-Tier Femtocell Networks with Open/Closed Access Using Evolutionary Game," *IEEE Wireless Communications and Networking Conference*, Shanghai, China, April 2013.
497. Zengfeng Zhang, Lingyang Song, Zhu Han, Walid Saad, and Zhaohua Lu, "Interference Management in Small Cell Networks: An Overlapping Coalitional Game Approach," *IEEE Wireless Communications and Networking Conference*, Shanghai, China, April 2013.
498. Tianyu Wang, Lingyang Song, Zhu Han, Junfeng Zhang, and Xiaodan Zhang, "Dynamic Resource Allocation in Cognitive Radio Two-Way Relay Networks Using Sequential Auctions," invited *IEEE International Wireless Symposium*, Beijing, April 2013.

499. Ting Ning, Zhipeng Yang, Hongyi Wu, and Zhu Han, "Self-Interest-Drive Incentives for Ad Dissemination in Autonomous Mobile Social Networks," The 32nd IEEE International Conference on Computer Communications, INFOCOM, Turin, Italy, April 2013.
500. Rong Zheng, Thanh Le, and Zhu Han, "Approximate Online Learning for Passive Monitoring of Multi-channel Wireless Networks," The 32nd IEEE International Conference on Computer Communications, INFOCOM, Turin, Italy, April 2013.
501. Tian Zhang, Wei Chen, Zhu Han, and Zhigang Cao, "A Cross-Layer Perspective on Energy Harvesting Aided Green Communications over Fading Channels," *2013 IEEE INFOCOM Workshop on Communications and Control for Smart Energy Systems*, Turin, Italy, April 2013.
502. Lanchao Liu and Zhu Han, "Scalable Sparse Optimization for Big Power Grid Data," *NSF Workshop on Big Data From Signal Processing to Systems Engineering*, Arlington, VA, March, 2013.
503. Chen Xu, Lingyang Song, Zhu Han, Do Li, and Bingli Bao, "Resource Allocation Using A Reverse Iterative Combinatorial Auction for Device-to-Device Underlay Cellular Networks," IEEE Globe Communication Conference, Anaheim, CA, December 2012.
504. Nam Tuan Nguyen, Yichuan Wang, Husheng Li, Xin Liu and Zhu Han, "Extracting Typical Users' Moving Patterns Using Deep Learning," IEEE Globe Communication Conference, Anaheim, CA, December 2012.
505. Mohammad Esmalifalak, Ge Shi, Zhu Han, and Lingyang Song, "Attack Against Electricity Market-Attacker and Defender Gaming," IEEE Globe Communication Conference, Anaheim, CA, December 2012.
506. Arsenia Chorti, Samir M. Perlaza, Zhu Han, and H. Vincent Poor, "Physical Layer Security in Wireless Networks with Passive and Active Eavesdroppers," IEEE Globe Communication Conference, Anaheim, CA, December 2012.
507. Samir M. Perlaza, Dusit Niyato, Zhu Han, and Vincent Poor, "On the Decentralized Management of Scrambling Codes in Small Cell Networks," invited, *IEEE Singapore International Conference on Communication Systems (ICCS)*, Singapore, November 2012.
508. Samir M. Perlaza, H. Vincent Poor, and Zhu Han, "Learning Efficient Satisfaction Equilibria via Trial and Error," 2012 Conference Record of the Forty Sixth Asilomar Conference on Signals, Systems and Computers (ASILOMAR), Pacific Grove, CA, November, 2012.
509. Yi Huang, Lifeng Lai, Husheng Li, Wei Chen, and Zhu Han, "Online Quickest Multiarm Bandit Algorithm for Distributive Renewable Energy Resource," *IEEE International Conference on Smart Grid Communications, Smartgridcomm*, **Best Paper Award**, Tainan, October 2012.
510. Yifan Li, Ran Wang, Ping Wang, Dusit Niyato, Walid Saad, and Zhu Han, "Resilient PHEV Charging Policies under Price Information Attacks," *IEEE International Conference on Smart Grid Communications, Smartgridcomm*, Tainan, October 2012.

511. Chen Wang, Meixia Tao, and Zhu Han, "Partition Function Game for Rate Optimization in Random Interference Networks," Fourth International Conference on Wireless Communications and Signal Processing, Huangshan City, China, October 2012.
512. Feiran Wang, Chen Xu, Lingyang Song, and Zhu Han, "Energy-Efficient Radio Resource and Power Allocation for Device-to-Device Communication Underlaying Cellular Networks," Fourth International Conference on Wireless Communications and Signal Processing, **Best Paper Award & WCSP 10-Year Anniversary Excellent Paper Award**, Huangshan City, China, October 2012.
513. Jun Deng, Rongqing Zhang, Lingyang Song, Zhu Han, Guang Yang, and Bingli Jiao, "Joint Power Control and Subchannel Allocation for OFDMA Femtocell Networks Using Distributed Auction Game," Fourth International Conference on Wireless Communications and Signal Processing, Huangshan City, China, October 2012.
514. Xiaofei Wang, Min Chen, Zhu Han, Ted "Taekyoung" Kwon, and Yanghee Choi, "Content Dissemination by Pushing and Sharing in Mobile Cellular Networks: An Analytical Study," *the 9th IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS)*, Las Vegas, NV, October 2012.
515. Samir M. Perlaza, Ravi Tandon, H. Vincent Poor, and Zhu Han, "The Nash Equilibrium Region of the Linear Deterministic Interference Channel with Feedback," *Allerton Conference on Communication, Control, and Computing*, Allerton, IL, Sep.-Oct. 2012.
516. Ziqiang Feng, Jun Deng, Lingyang Song, Zhu Hany, Guang Yang, and Bingli Jiao, "Joint Access Control and Subchannel Allocation for OFDMA Femtocell Network Using a Truthful Mechanism," *International Workshop on Practical Issues and Applications in Next Generation Wireless Networks*, in conjunction with ACM MOBICOM 2012, Istanbul, Turkey, August 2012.
517. Tianyu Wang, Lingyang Song, Zhu Han, and Bingli Jiao, "Popular Content Distribution in CR-VANETs with Joint Spectrum Sensing and Channel Access," *Chinacom*, Kunming, China, August 2012 **Best Student Paper Award**.
518. Walid Saad, Zhu Han, and H. Vincent Poor, "On the Physical Layer Security of Backscatter RFID Systems," invited, *The Ninth International Symposium on Wireless Communication Systems*, Paris, France, August 2012.
519. Nam Tuan Nguyen, Yichuan Wang, Xin Liu, Rong Zheng, and Zhu Han, "A Non-parametric Bayesian Approach for Opportunistic Data Transfer in Cellular Networks," invited, *The 7th International Conference on Wireless Algorithms, Systems, and Applications*, Yellow Mountains, China, August 2012.
520. Tianyu Wang, Lingyang Song, and Zhu Han, "Popular Content Distribution in CR-VANETs with Sensing-Throughput Tradeoff," *First IEEE International Conference on Communications in China (ICCC)*, Beijing, China, August 2012.
521. Y. C. Shiu, J. S. H. Tsai, S. M. Guo, L. S. Shieh, and Z. Han, "Fault-Tolerant Tracker For Interconnected Large-Scale Nonlinear Systems With Input Constraint," *4th International Interdisciplinary Chaos Symposium on Chaos and Complex Systems*, Antalya, Turkey, May 2012.
522. Francois Meriaux, Samir M. Perlaza, Samson Lasaulce, Zhu Han, and Vincent Poor, "On the Achievability of Efficient Satisfaction Equilibria in Self-Configuring

- Networks,” *3rd International Conference on Game Theory for Networks (Gamenets)*, Vancouver, Canada, May 2012.
523. Zhou Yuan, Ju Bin Song, and Zhu Han, “Network Formation Game for Interference Minimization Routing in Cognitive Radio Mesh Networks,” invited, *3rd International Conference on Game Theory for Networks (Gamenets)*, Vancouver, Canada, May 2012.
 524. Quanyan Zhu, Zhu Han, and Tamer Basar, “A Differential Game Approach to Distributed Demand Side Management in Smart Grid,” *IEEE International Conference on Communications*, Ottawa, Canada, June 2012.
 525. Siavash Bayat, Raymond Hall Yip Louie, Zhu Han, Yonghui Li, and Branka Vucetic, “Multiple Operator and Multiple Femtocell Networks: Distributed Stable Matching,” *IEEE International Conference on Communications*, Ottawa, Canada, June 2012.
 526. Muhammad Ejaz Ahmed, Ju Bin Song, Nam Tuan Nguyem, and Zhu Han, “Non-parametric Bayesian Identification of Primary Users’ Payloads in Cognitive Radio Networks,” *IEEE International Conference on Communications*, Ottawa, Canada, June 2012.
 527. Lanchao Liu, Husheng Li, and Zhu Han, “Sampling Spectrum Occupancy Data over Random Fields: A Matrix Completion Approach,” *IEEE International Conference on Communications*, Ottawa, Canada, June 2012.
 528. Tianyu Wang, Lingyang Song, Zhu Han, Xiang Cheng, and Bingli Jiao, “Power Allocation using Vickrey Auction and Sequential First-Price Auction Games for Physical Layer Security in Cognitive Relay Networks,” *IEEE International Conference on Communications*, Ottawa, Canada, June 2012.
 529. Chen Xu, Lingyang Song, Zhu Han, Qun Zhao, Xiaoli Wang, and Bingli Jiao, “Interference-Aware Resource Allocation for Device-to-Device Communications as an Underlay Using Sequential Second Price Auction,” *IEEE International Conference on Communications*, Ottawa, Canada, June 2012.
 530. Mohammad Esmalifalak, Zhu Han, and Lingyang Song, “Effect Of Stealthy Bad Data Injection On Network Congestion In Market Based Power System,” *IEEE Wireless Communications and Networking Conference*, Paris, France, April 2012, (**Best Paper Award**).
 531. Siavash Bayat, Raymond Hall Yip Louie, Zhu Han, Yonghui Li, and Branka Vucetic, “Distributed Stable Matching Algorithm for Physical Layer Security with Multiple Source-Destination Pairs and Jammer Nodes,” *IEEE Wireless Communications and Networking Conference*, Paris, France, April 2012.
 532. Dusit Niyato, Ping Wang, Ekram Hossain, Walid Saad, and Zhu Han, “Game Theoretic Modeling of Cooperation among Service Providers in Mobile Cloud Computing Environments,” *IEEE Wireless Communications and Networking Conference*, Paris, France, April 2012, (**Best Paper Award**).
 533. Yifan Li, Rakpong Kaewpuang, Ping Wang, Dusit Niyato and Zhu Han, “An Energy Efficient Solution: Integrating Plug-In Hybrid Electric Vehicle in Smart Grid with Renewable Energy,” *IEEE INFOCOM Workshop on Green Networking and Smart Grids*, March 2012.

534. Hannan Ma, Husheng Li, and Zhu Han, "A Framework of Frequency Oscillation in Power Grid: Epidemic Propagation over Social Networks," *IEEE INFOCOM Workshop on Green Networking and Smart Grids*, March 2012.
535. Hung Khanh Nguyen, Ju Bin Song, and Zhu Han, "Demand Side Management to Reduce Peak-to-Average Ratio using Game Theory in Smart Grid," *IEEE INFOCOM Workshop on Green Networking and Smart Grids*, March 2012.
536. Husheng Li and Zhu Han, "Distributed Scheduling of Wireless Communications for Voltage Control in Micro Smart Grid", SG-COMNETs workshop in *IEEE Globe Communication Conference (Globecom)*, Houston, TX, December 2011.
537. Husheng Li and Zhu Han, "Manipulating the Electricity Power Market via Jamming the Price Signaling in Smart Grid," SG-COMNETs workshop in *IEEE Globe Communication Conference (Globecom)*, Houston, TX, December 2011.
538. Jingchao Chen, Lingyang Song, Zhu Han, and Bingli Jiao, "Joint Relay and Jammer Selection for Secure Decode-and-Forward Two-Way Relay Communications," *IEEE Globe Communication Conference (Globecom)*, Houston, TX, December 2011.
539. Lanchao Liu, Zhu Han, Zhiqiang Wu, and Lijun Qian, "Collaborative Compressive Sensing based Dynamic Spectrum Sensing and Mobile Primary User Localization in Cognitive Radio Networks," *IEEE Globe Communication Conference (Globecom)*, Houston, TX, December 2011.
540. Huy Nguyen, Nam Nguyen, Guanbo Zheng, Zhu Han, and Rong Zheng, "Binary Blind Identification of Wireless Transmission Technologies for Wide-band Spectrum Monitoring," *IEEE Globe Communication Conference (Globecom)*, Houston, TX, December 2011.
541. Xue Li, Steven Hong, Zhu Han, and Zhiqiang Wu, "Bayesian Compressed Sensing Based Dynamic Joint Spectrum Sensing and Primary User Localization for Dynamic Spectrum Access," *IEEE Globe Communication Conference (Globecom)*, Houston, TX, December 2011.
542. Husheng Li, Zhu Han, and Zhenghao Zhang, "Communication over Random Fields: A Statistical Framework for Cognitive Radio Networks," *IEEE Globe Communication Conference (Globecom)*, Houston, TX, December 2011.
543. Tianyu Wang, Lingyang Song, Zhu Han, Zhongshan Zhang, and Bingli Jiao, "A Feedback Rate Control Game using Sequential Second Price Auction for Channel State Information and Intercell Interference in Wireless Networks," invited, *2011 International Conference on Wireless Communications & Signal Processing: WCSP*, November 2011.
544. Quanyan Zhu, Walid Saad, Zhu Han, H. Vincent Poor, and Tamer Basar, "Eavesdropping and Jamming in Next-Generation Wireless Networks: a Game Theoretic Approach," *the 2011 IEEE Military Communications Conference*, November 2011.
545. Mohammad Esmalifalak, Huy Nguyen, Rong Zheng, and Zhu Han, "Stealth False Data Injection using Independent Component Analysis in Smart Grid," *IEEE International Conference on Smart Grid Communications, Smartgridcomm*, October 2011.

546. Walid Saad, Zhu Han, H. Vincent Poor, and Tamer Basar, "A Noncooperative Game for Double Auction-Based Energy Trading between PHEVs and Distribution Grids," *IEEE International Conference on Smart Grid Communications, Smartgridcomm*, October 2011.
547. Husheng Li, Zhu Han, Lifeng Lai, Robert Caiming Qiu, and Depeng Yang, "Efficient and Reliable Multiple Access for Advanced Metering in Future Smart Grid," *IEEE International Conference on Smart Grid Communications, Smartgridcomm*, October 2011.
548. Husheng Li and Zhu Han, "Synchronization of Power Networks Without and With Communication Infrastructures," *IEEE International Conference on Smart Grid Communications, Smartgridcomm*, October 2011.
549. Manav Bhatnagar, Ankur Bansal, Are Hjørungnes, and Zhu Han, "Maximum-Likelihood Decoding in Decode-and-Forward Based MIMO Cooperative Communication Systems," *the 45th Asilomar Conference on Signals, Systems and Computers*, October 2011.
550. Lei Jiang, Zhu Han, Maria-Angeles Vazquez-Castro, and Are Hjørungnes, "Multi-beam SATCOM Systems Design with Physical Layer Security," invited, *2011 IEEE International Conference on Ultra-Wideband*, September 2011.
551. Rongqing Zhang, Lingyang Song, Zhu Han, Zhongshan Zhang, and Bingli Jiao, "Joint subcarrier and power allocation for multiuser OFDM systems using distributed auction game," *the 6th international conference on Wireless algorithms, systems, and applications*, Chengdu, China, August, 2011.
552. Tianyu Wang, Rongqing Zhang, Lingyang Song, Zhu Han, Haopeng Li, and Bingli Jiao, "Power Allocation for Two-Way Relay System Based on Sequential Second Price Auction," invited, *The Third International Conference on Ubiquitous and Future Networks*, June 2011.
553. Walid Saad, Zhu Han, and H. Vincent Poor, "Coalitional Game Theory for Cooperative Micro-Grid Distribution Networks," *IEEE International Conference on Communications, Workshop on Smart Grid Communications*, Kyoto, Japan, June 2011.
554. Jia Meng, Yingying Li, Nam Nguyen, Wotao Yin, and Zhu Han, "High Resolution OFDM Channel Estimation with Low Speed ADC using Compressive Sensing," *IEEE International Conference on Communications*, Kyoto, Japan, June 2011.
555. Lingyang Song, Zhu Han, Qihao Li, and Bingli Jiao, "Feedback Control Game for Channel State Information in Wireless Networks," *IEEE International Conference on Communications*, Kyoto, Japan, June 2011.
556. Jingchao Chen, Rongqing Zhang, Lingyang Song, Zhu Han, and Bingli Jiao, "Joint Relay and Jammer Selection for Secure Two-way Relay Networks," *IEEE International Conference on Communications*, Kyoto, Japan, June 2011.
557. Rongqing Zhang, Lingyang Song, Zhu Han, and Bingli Jiao, "Distributed Coalition Formation of Relay and Friendly Jammers for Secure Cooperative Networks," *IEEE International Conference on Communications*, Kyoto, Japan, June 2011.

558. Rongqing Zhang, Lingyang Song, Zhu Han, and Bingli Jiao, "Relay and Jammer Cooperation as a Coalitional Game in Secure Cooperative Wireless Networks," invited, *1st International ICST Workshop on Secure Wireless Networks (SECURENETS)*, May 2011.
559. Yingying Li, Zhu Han, Wei-Chuan Shih and Wotao Yin, "Oil spill sensor using multispectral infrared imaging via l1 minimization," *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Prague, Czech Republic, May 2011.
560. Tianyu Wang, Lingyang Song, Zhu Han, and Bingli Jiao, "Improve Secure Communications in Cognitive Two-Way Relay Networks using Sequential Second Price Auction," *Fifth IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks 2010 (DySPAN 2011)*, Aachen, Germany, May 2011.
561. Walid Saad, Zhu Han, and H. Vincent Poor, "A Game Theoretic Approach for Multi-hop Power Line Communications," invited, *2nd International ICST Conference on Game Theory for Networks (Gamenet)*, Shanghai, China, April 2011.
562. Shuhang Liu, Rongqing Zhang, Lingyang Song, Zhu Han, and Bingli Jiao, "Enforce Truth-Telling in Wireless Relay Networks for Secure Communication," *IEEE International Workshop on Security in Computers, Networking and Communications (SCNC)*, INFOCOM Workshop, Shanghai, China, April 2011.
563. Rongqing Zhang, Lingyang Song, Zhu Han, and Bingli Jiao, "Improve Physical Layer Security in Cooperative Wireless Network using Distributed Auction Games," *the 2011 International Workshop on Cognitive and Cognitive and Cooperative Networks*, INFOCOM Workshop, Shanghai, China, April 2011.
564. Nam Tuan Nguyen, Guanbo Zheng, Zhu Han and Rong Zheng, "Device Fingerprinting to Enhance Wireless Security using Nonparametric Bayesian Method," *IEEE Annual IEEE Conference on Computer Communications INFOCOM*, Shanghai, China, April 2011.
565. Wotao Yin, Zaiwen Wen, Shuyi Li, Jia (Jasmine) Meng, and Zhu Han, "Dynamic Compressive Spectrum Sensing for Cognitive Radio Networks," *the 45th Annual Conference on Information Sciences and Systems (CISS)*, Baltimore, MD, March 2011.
566. Yi Huang, Husheng Li, Kristy A. Campbell, and Zhu Han, "Defending False Data Injection Attack On Smart Grid Network Using Adaptive CUSUM Test," *the 45th Annual Conference on Information Sciences and Systems (CISS)*, Baltimore, MD, March 2011.
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HOBBY

- North Pole Marathon, April 2012, the reason why the Chinese national flag waving first time in this event.
- First Chinese to Finish Seven Marathons in Seven Continents. First Chinese in Grand Slam Marathon Club (7 Continent Marathons plus North Pole Marathon).
- Half Ironman, swim (1.9 km), bike (90 km), run (22.1 km), IRONMAN 70.3 Texas, Galveston, April 2016.

- North American Chinese Soccer Tournament, Grand National Champion, New Brunswick, New Jersey, May 1999. Member of Team Maryland Hunter.
- North American Chinese Soccer Tournament, South Champion, San Antonio, May 2018. Member of Team Tang Dynasty.
- 68 Countries Visited. Highest Point: Summit of Kilimanjaro, 5,895m. Lowest Point: Dead Sea, -417m. North Most Point: North Pole, 90°0'0"N. South Most Point: Southern Ellsworth Mountains at Union Glacier, Antarctica, 79°46'.