

Dr. Zhu Han

CONTACT INFORMATION	W302 Engineering Building 2 University of Houston Houston, TX 77004, USA	<i>Phone:</i> (713) 743-4437 (o), (301) 996-2011 (c) <i>E-mail:</i> hanzhu22@gmail.com, zhan2@uh.edu <i>http:</i> //www2.egr.uh.edu/~zhan2
HIGHLIGHT	<p>14 Ph.D., 4 M.S., 4 former postdoc, and currently 9 Ph.D. students</p> <p>15 NSF funding (including US NSF career award 2010), \$2,743,670 with 100% credit Department of Defense, Department of Interior, Gulf of Mexico research, Qatar, and Power Analysis Consortium since 2008</p> <p>IEEE Fellow in 2013 (class of 2014) for contributions to resource allocation and security in wireless communications</p> <p>IEEE Distinguished Lecturer, 2015-2016</p> <p>Young Outstanding Overseas Researcher, National Science Foundation China, 2015</p> <p>2016 IEEE Leonard G. Abraham Prize in the field of Communications Systems (Best Paper Award for IEEE Journal on Selected Areas on Communications).</p> <p>2015 EURASIP Best Paper Award for the Journal on Advances in Signal Processing.</p> <p>2011 IEEE Communications Society Fred W. Ellersick Prize (Best Paper Award for IEEE Wireless Communications Magazine).</p> <p>11 IEEE conference best paper awards</p> <p>Award for Excellence in Research, Scholarship or Creative Activity, Twice, 2010–2011, 2014-2015, the highest in University of Houston, 2 winners per year</p> <p>7 published textbooks/1 edited book/1 textbook working in process, all by Cambridge University Press</p> <p>273 published/accepted transactions/magazines/letters, 326 conference papers, 16 book chapters, 8 brief books, and 2 patents</p> <p>google citation >20,000, H factor 70, i10 index 299</p> <p>First Chinese in Grand Slam Marathon Club to Finish North Pole Marathon and Seven Marathons in Seven Continents (including Antarctica).</p>	
EDUCATION	<p>University of Maryland, College Park, Maryland, USA</p> <p>Ph.D. in Electrical and Computer Engineering, November, 2003</p> <p>M.S. in Electrical and Computer Engineering, May, 1999</p> <p>Tsinghua University, Beijing, China</p> <p>B.S. in Electronic Engineering, June, 1997</p> <p>Major: Communication, Minor: English</p> <p>Rank No.7 in New Student Exam 1992</p>	

National Science Foundation Projects

1. **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.
2. **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.
3. **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
4. **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.
5. **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.
6. **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.
7. **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.
8. **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.
9. **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.
10. **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.
11. **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).

12. **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.
13. **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.
14. **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.
15. **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

15. **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.
16. **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.
17. **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

18. **Founder** of Electric Power Analytics Consortium, 2012. Current members: Centerpoint and Direct Energy.
19. **Principal Investigator** of “Teaching and Research Proposal for Texas Instrument Digital Signal Processor,” Texas Instruments and Micron Technology, funded, \$151,580, 2007.

Other Projects

20. **CO-Principal Investigator** of “Reconstructing high-resolution infrared spectroscopic images from high-speed multi-modal microscopes,” CACDS: Seed Funding For Advanced Computing, University of Houston, \$40,000, 2017-2018.
21. **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.

22. **Co-Principal Investigator** of “Super-Resolution Signal Processing for Lidar,” Optical Air Data Systems, L.L.C., funded, \$90,433, 2005.
23. **New Faculty Award**, \$6,000, University of Houston, Houston, Texas, 2008.

Participants of Chinese Projects

24. PI, “A Matching Theory Framework for Device-to-Device Networks”, NSFC 61428101, Host University: Beijing University, 2015-2016.

Participants (Senior Personnel) of European Projects

25. “Rate Allocation for Satellite Systems with Correlated Channels Based on a Stackelberg Game,” funded, European Space Agency PRESTIGE Programme, 2009-2012.
26. “Theoretical Foundations of Mobile Flexible Networks,” VERDIKT project supported by Research Council of Norway, 2007-2010.
27. “Optimized Heterogeneous Multiuser MIMO Networks - OptiMO,” VERDIKT project supported by Research Council of Norway, 2008-2011.
28. “Mobile-to-Mobile Communication Systems - M2M,” VERDIKT project supported by Research Council of Norway, 2009-2012.

HONORS FOR RESEARCH

IEEE Distinguished Lecturer, 2015-2016.

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, 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.

ACADEMIA
EMPLOYMENT

University of Houston, Houston, Texas, USA

Full Professor in ECE Department **September, 2012 - Present**

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 <i>Intern</i>	June, 1996 - July, 1997
VISITING EXPERIENCE	Beijing University , Beijing China Tsinghua University , Beijing China <i>Visiting Professor</i>	August, 2013
	Hongkong RGC visitor program , Hong Kong <i>International Visiting Professor</i>	August, 2012
	Kyung Hee University , South Korea <i>International Scholar</i>	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 <i>Visiting Professor</i>	June, 2010
	Host: Professor Eitan Altman	
	University of Illinois , Urbana-Champaign, USA <i>Visiting Professor</i>	July, 2009
	Host: Professor Tamer Basar	
	University of Oslo , Oslo, Norway; Supelec , Paris, France <i>Visiting Professor</i>	May, 2008 - July, 2008
	Host: Professor Are Hjørungnes and Professor M��rouane Debbah	
	Stanford University , Stanford, California, USA <i>Visiting Professor</i>	May, 2007 - August, 2007
	Host: Professor John M. Cioffi	
	Princeton University , Princeton, New Jersey, USA <i>Visiting Scholar</i>	July, 2006 - August, 2006
	Host: Professor H. Vincent Poor	
TEACHING EXPERIENCE	University of Houston , Houston, USA <i>ECE6397 Selective Topics in Optimization</i> <i>ECE6333 Detection and Estimation</i>	Fall, 2012 Spring, 2011, 2013, 2015

ECE6332 Wireless Communication **Spring, 2010, 2014**

ECE6331 Advanced Telecommunications **Spring, 2009**

ECE4371 Introduction to Telecommunication Engineering
ECE4117 Telecommunication Laboratory **Fall, 2008-2013**

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**

CURRENT GROUP
MEMBER

- Huaqing Zhang, Ph.D. student
- Radwa Aly, Ph.D. student
- Xunsheng Du, Ph.D. student
- Mohamed Elmossalamy, Ph.D. student
- Neetu Raveendran, Ph.D. student
- Kevin Tsai, Ph.D. student
- Mounika Sai Errapotu, Ph.D. student, joint with Dr. Miao Pan
- Qiuyang Sheng, Ph.D. student, joint with Dr. Jiefu Chen
- Nguyen Tran, Ph.D. student, joint with Dr. David Mayerich

ALUMNI

- Fahira Sangare, Ph.D. 2017, "RF Energy Harvesting and Information Transfer Implementation in the Internet of Things."
- Hung Nguyen, Ph.D. 2017, "Big Data Optimization for Distributed Resource Management in Smart Grid."
- Yunan Gu, Ph.D. 2016, "Matching Theory Framework for 5G Wireless Communications."
- Yanru Zhang, Ph.D. 2016, "Contract Theory Framework for Wireless Networking."
- Erte Pan, Ph.D. 2016, "Big Data Analysis of Complex Networks using Machine Learning Methods."
- Ali Arab, Ph.D. 2015, "Asset Management Of Smart Grid Infrastructure For Resiliency Enhancement", Industrial Engineering, joint with Professor Suresh Khator.
- 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.
- Lanchao Liu, Ph.D. 2014, "Big Data Optimization for Modern Communication Networks," winner of National Excellent Ph.D Student Scholarship.

- Najmeh Forouzandeh Mehr, Ph.D. 2013, “Game Theoretical Framework for Dynamic Control in Smart Grid”.
- Nam Tuan Nguyen, Ph.D. 2013, “A Nonparametric Bayesian Framework For Mobile Device Security And Location Based Services”.
- Guanbo Zheng, Ph.D. 2013, joint with professor Rong Zheng, “Toward Reliable and Robust Wireless Personal Area Networks”.
- Mohammad Esmalifalak, Ph.D. 2013, “Attack and Defense Mechanisms for State Estimation in Smart Grid”.
- Thanh Le, M.S. 2013, “Sequential Learning for Passive Monitoring of Multi-Channel Wireless Network”.
- Yi Huang, Ph.D. 2012, “A Quickest Detection Framework for Smart Grid”.
- Tina Mathews, M.S. 2012, “USRP2 Implementation of Compressive Sensing based Channel Estimation in OFDM”.
- Zhou Yuan, Ph.D. 2012, “A Framework Of Belief Propagation and Game Theory for Cognitive Radio Security and Routing”.
- Jia Meng, Ph.D. 2010, “Compressive Sensing Applications for Wireless Communications”.
- Barsha Shrestha, MS. 2008, ”Wireless Access in Vehicular Environments using Bit Torrent and Bargaining.”.
- Yong Xiao, Postdoc, now in Arizona State University, AZ.
- Samir Medina Perlaza, Ph.D. Supelec, France, joint with Princeton University, now in Inria, France.
- Walid Saad, Postdoc, Ph.D. University of Oslo, joint with Princeton University, now in professor in University of Miami.
- 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 Autonoma 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.

Invited Talks

Southern Methodist University, UT Dallas, UT Arlington, Rice University, Texas A&M University, UT Austin, Prairie view A&M University, Texas Southern University, University of Washington, MIT, Columbia University, Rutgers University, Wright State University, University of Hawaii, UCLA, UIUC, SUNY Buffalo, University of Miami, Florida International University, Arizona State University, Stanford, Virginia Tech, Kentucky State University, UC Davis, George Mason University, George Washington University, Auburn University, University of North Carolina at Greensboro, Oregon State University, California State University at San Diego, UC Irvine, UC Riverside, Illinois Institute of Technology, Northwestern University, Simon Fraser University, University of British Columbia, University of Toronto, University of Waterloo, McMaster University, Carleton University, Tsinghua University, Shanghai Jiaotong University, Zhejiang University, Beijing University, University of Science and Technology of China, Chinese Academy of Sciences, Xidian University, Xian Jiaotong University, Beijing University of Posts and Telecommunications, Beijing Jiaotong University, Chinese University of Hongkong, Hongkong University of Science and Technology, HongKong Polytech University, Nanyang Technological University of Singapore, National University of Singapore, I2R of Singapore, INFOCOMM of Singapore, National Taiwan University, Taiwan Chiao Tung University, Korean University, SKKU University, Kyung Hee University, Seoul National University, KAIST University, GIST University, Qualcomm Research, Schlumberger Research, Centerpoint, LLC, Inria France, University of Oslo, Supelec France, University of Avignon France, University of Luxembourg, University of Oulu, University of Florence, KTH Sweden, University of New South Wales, American University of Beirut, Qatar University, Texas A&M University at Qatar, Brazil Federal University of Rio de Janeiro.

Editor

- Associate Editor, IEEE Access, 2016 - Present.
- Associate Editor, Journal of Communications and Networks, 2015 - Present.
- Associate Editor, IEEE Transactions on Wireless Communications, 2010 - 2015.
- 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

- Publicity Chair, the 23rd Asia Pacific Conference on Communications, 2017.
- Workshop Organizer, 5G Ultra Dense Networks, IEEE International 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

- “Big Data Signal Processing for Communication Networks,” IEEE Global Communications Conference (Globecom), 2017.
- “5G Wireless Communications: Enabling Technologies and Resource Management,” IEEE Global Communications Conference (Globecom), 2016.
- “Full-Duplex Communications and Networks,” IEEE International Conference on Communications in China (ICCC), 2016.
- “Distributed Resource Allocation for 5G Communications and Networks,” IEEE International Conference on Communications (ICC), 2016.
- “Full-Duplex Communications and Networks: Fundamentals, Technologies, and Applications,” IEEE Global Communications Conference (Globecom) 2015.
- “Resource Allocation for Full-Duplex Communication and Networks,” IEEE International Conference on Communication (ICC) 2015.
- “Full-Duplex Wireless Communication and Networks: Key Technologies and Appli-

- cations”, IEEE International Conference on Communication in China (ICCC) 2014.
- “Game-theoretic Methods for Device-to-Device Communications”, IEEE International Conference on Communication (ICC) 2014.
- “Wireless Device-to-Device Communications and Networks”, IEEE Global Communications Conference (Globecom) 2013.
- “Smart Grid Communications and Networking”, IEEE International Conference on Communication (ICC) 2013.
- “Resource Allocation in Wireless Physical Layer Security,” IEEE Wireless Communications and Networking Conference (WCNC) 2013.
- “Device to Device Communication for Next Generation Wireless Networks”, IEEE International Conference on Communication in China (ICCC) 2013.
- “Smart Grid Communications and Networking,” CHINACOM-2012.
- “Application of Game Theory for Designing Cognitive Radio Networks,” IEEE International Conference and Communication (ICC) 2010.
- “Coalitional Game Theory in Wireless Networks,” IEEE Wireless Communications and Networking Conference (WCNC) 2010.
- “Game Theory for Cognitive Radio Networks,” IEEE Global Communications Conference (Globecom) 2009.

Technical Programming Committee

- Member of Technical Programming Committee of IEEE/ACM INFOCOM, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018.
- Member of Technical Programming Committee of IEEE Global Communications Conference, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.
- Member of Technical Programming Committee of IEEE International Conference on Communications, 2004, 2005, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018.
- Member of Technical Programming Committee of IEEE Wireless Communications and Networking Conference, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018.
- Member of Technical Programming Committee of IEEE SmartGridComm, 2012, 2013, 2014, 2015, 2016, 2017.
- Member of Technical Programming Committee of IEEE GlobalSIP, 2014, 2015, 2016.
- Member of Technical Programming Committee of IEEE Milcom, 2016, 2017.
- Member of Technical Programming Committee of International Conference on Wireless Communications and Signal Processing, 2017.
- Member of Technical Programming Committee of IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks (DYSPAN), 2011.
- Member of Technical Programming Committee of IEEE 10th International Symposium of Modeling and Optimization of Mobile, Ad Hoc, and Wireless Networks (WiOpt), 2012, 2013, 2014.
- Member of Technical Programming Committee of IEEE Conference on Communications and Network Security, 2013.
- Member of Technical Programming Committee of IEEE International Conference on Green Computing and Communications, 2013
- Member of Technical Programming Committee of IEEE International Conference on Communications, Workshop SmallNets, 2013.
- Member of Technical Programming Committee of 8th international conference on

Wireless algorithms, systems, and applications, 2013.

- Member of Technical Programming Committee of Conference on Decision and Game Theory for Security (GameSec), 2012.
- Member of Technical Programming Committee of IEEE International Conference on Communications in China, 2012, 2014, 2017.
- Member of Technical Programming Committee of the 10th IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), 2013.
- Member of Technical Programming Committee of the 8th International workshop on Resource Allocation and Cooperation in Wireless Networks, 2012.
- Member of Technical Programming Committee of 2012 International Conference on Wireless Communications and Signal Processing, 2012, 2014.
- Member of Technical Programming Committee of Fifth International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), 2011.
- Member of Technical Programming Committee of IEEE Consumer Communications and Networking Conference 2005, 2006, 2008, 2009.
- Member of Technical Programming Committee of Workshop on “Cognitive Wireless Networks and Systems - Cognitive Radio Networking” 2009.
- Member of Technical Programming Committee of ChinaCom 2008, 2009.
- Member of Technical Programming Committee of IEEE International Conference on Wireless and Mobile Computing, Networking and Communications, 2008, 2009.
- Member of Technical Programming Committee of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2010, 2013, 2014, 2015, 2016, 2017.
- Member of Technical Programming Committee of Third IEEE Workshop on Networking Technologies for Software Defined Radio (SDR) Networks, 2008.
- Member of Technical Programming Committee of First ACM International Workshop on Medical-Grade Wireless Networks, 2009.
- Member of Technical Programming Committee of 3rd ICST/ACM International Workshop on Game Theory in Communication Networks, Gamecomm2009, 2009.
- Member of Technical Programming Committee of International Conference on Computer Communications and Networks, 2007, 2009, 2014.
- Member of Technical Programming Committee of Cognitive Wireless Communications and Networking (CWCN) Workshop, 2009.
- Member of Technical Programming Committee of IEEE Vehicular Technology Conference Spring, 2004, Fall, 2007, Fall 2008, Spring 2009, Spring 2010, Spring 2011, Fall 2012.
- Member of Technical Programming Committee of International Wireless Communications and Mobile Computing Conference 2007, 2009.
- Member of Technical Programming Committee of The 8th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (IEEE WoWMoM 2007), 2007.
- Member of Technical Programming Committee of International Symposium on Multimedia over Wireless (WirelessCom), 2005, 2006.
- Member of Technical Programming Committee of International Wireless Communication and Mobile Computing Conference (IWCMC), 2006, 2008, 2014, 2017.
- Member of Technical Programming Committee of 12th Communications and Networking Simulation Symposium (CNS’09).
- Member of Technical Programming Committee of International Conference on Quality

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

Plenary, Keynote and Invited Talk in Conference

- Plenary Talk, “Case Study of Big Data Analysis for Smart Grid,” IFOST, Ulsan, Korea, May 2017
- Plenary Talk, “Full Duplex Communication and its Impact on Wireless Networking”, *IEEE Globecom Full Duplex Wireless Communications Workshop*, Washington DC, 2016.
- Keynote Speech, “Big Data Analysis: Techniques and Applications,” *DELTA Summer workshop*, Finland, August 2016.
- Invited Talk, “Resource Allocation in Small Cell Networks with Massive MIMO,” *International Conference on Computing, Networking and Communications*, Hawaii, February 2016.
- Invited Talk, “Multi-Block ADMM for Big Data Optimization in Smart Grid,” *International Conference on Computing, Networking and Communications*, Anaheim, CA, February, 2015.
- 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.
- Plenary Talk, “Cooperation for Cognitive Radios,” *the 4th International Workshop on Game Theory in Communication Networks (Gamecomm)*, Paris, France, May 2011.

Other Services

- Publication Award Committee, IEEE ComSoc Technical Committee on Cognitive Networks (TCCN), 2017
- 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
- 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 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 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.

PUBLICATIONS

Books

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.
7. Lingyang Song, Risto Wichman, Yonghui Li, and Zhu Han, *Full-Duplex Communications and Networks*, Cambridge University Press, UK 2017.
8. Zhu Han, Dusit Niyato, Walid Saad, and Tamer Basar, *Game Theory for Next-Generation Wireless and Communication Networks: Modeling, Analysis, and Design*, contract with Cambridge University Press, UK.

Edited Book

9. Ekram Hossain, Zhu Han, and Vincent Poor, *Smart Grid Communications and Networking*, Cambridge University Press, UK, 2012 (Chinese version by Publishing House of Electronic Industry, China, 2013).

Brief Books

1. Huaqing Zhang, Sami Khairy, Lin X. Cai, and Zhu Han, "Resource Allocation in Unlicensed LTE HetNets," Springer Science + Business Media, LLC, 2017.
2. Zhu Han, Yunan Gu, and Walid Saad, "Matching Theory for Wireless Networks," Springer Science + Business Media, LLC, 2017.
3. Yanru Zhang and Zhu Han, "Contract Theory For Wireless Networks," Springer Science + Business Media, LLC, 2017.
4. Huaqing Zhang and Zhu Han, "Distributed Resource Allocation for Network Virtualization," to appear, Springer Science + Business Media, LLC.

5. Hongliang Zhang, Lingyang Song, Zhu Han, and Yingjun (Angela) Zhang, “Hypergraph Theory in Wireless Communication Networks,” to appear, Springer Science + Business Media, LLC.
6. Tianyu Wang, Lingyang Song, Walid Saad, and Zhu Han, “Overlapping Coalition Formation Games in Wireless Communication Networks,” Springer Science + Business Media, LLC, 2016.
7. Yun Liao, Tianyu Wang, Lingyang Song and Zhu Han, “Listen and Talk: Full-duplex Cognitive Radio Networks,” Springer Science + Business Media, LLC, 2016.
8. Dan Wang and Zhu Han, “Sublinear Algorithms for Big Data Applications,” Springer Science + Business Media, LLC, 2015.
9. Chen Xu, Lingyang Song and Zhu Han, “Resource Management for Device-to-Device Underlay Communication,” Springer Science + Business Media, LLC, 2013.

Book Chapters

1. Fahira Sangare and Zhu Han, “RF Energy Harvesting Networks: Existing Techniques and Hardware Technology,” *Wireless Energy Harvesting for Future Wireless Communications*, Springer-Verlag New York, USA, editors: Nalin Jayakody, John Thompson, Symeon Chatzinotas, and Salman Durrani.
2. Huaqing Zhang and Zhu Han, “Distributed Resource Allocation for Network Virtualization,” *Handbook of Cognitive Radio*, Springer, editors: Lingyang Song and Wei Zhang.
3. Yunan Gu, Lin Cai, Lingyang Song, and Zhu Han, “LTE-Unlicensed and Corresponding Distributed Resource Allocation,” *Emerging Technologies for 5G Wireless Systems*, Cambridge University Press, editors: Vincent Wong, Robert Schober, Wing Kwan Ng and Li-Chun Wang
4. Lanchao Liu, Zhu Han, Shuguang Cui, and Vincent Poor, “Big Data Processing for Smart Grid Security,” *Big Data over Networks*, Cambridge University Press, edited by Alfred Hero, Jose’ Moura, Tom Luo, and Shuguang Cui, 2014.
5. Ju Bin Song and Zhu Han, “Nonparametric Bayesian prediction of primary users’ air traffics in cognitive radio networks,” *Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Access and Management*, IGI-Global, editors: Naima Kaabouch and Wen Chen Hu, 2014.
6. Rongqing Zhang, Lingyang Song, Zhu Han, and Bingli Jiao, “Relay and Jammer Cooperation as a Coalitional Game,” *Physical Layer Security in Wireless Communications*, Auerbach Publications, CRC Press, Taylor&Francis Group, editors: Sean Zhou, Lingyang Song, and Yan Zhang, 2013.
7. Rongqing Zhang, Lingyang Song, Zhu Han, and Bingli Jiao, “Ascending Clock Auction for Physical Layer Security,” *Physical Layer Security in Wireless Communications*, Auerbach Publications, CRC Press, Taylor&Francis Group, editors: Sean Zhou, Lingyang Song, and Yan Zhang, 2013.
8. Tianyu Wang, Lingyang Song, Zhu Han, and Bingli Jiao, “Dynamic Resource Allocation in Cognitive Radio Relay Networks Using Sequential Auctions,” *Mechanisms and Games for Dynamic Spectrum Allocation*, Cambridge University Press, editors: H. Vincent Poor, Holger Boche, Tansu Alpcan, and Michael Honig, 2013.

9. Walid Saad, Zhu Han, and Are Hjørungnes, “Coalitional Games for Cooperative Wireless Cellular Networks,” *Cooperative Cellular Wireless Networks*, Cambridge University Press, editors: Ekram Hossain, Dong In Kim, and Vijay K. Bhargava, 2011.
10. Ninoslav Marina, Walid Saad, Zhu Han, and Are Hjørungnes, “Modeling Malicious Behavior in Cooperative Cellular Wireless Networks,” *Cooperative Cellular Wireless Networks*, Cambridge University Press, editors: Ekram Hossain, Dong In Kim, and Vijay K. Bhargava, 2011.
11. Guan-Ming Su and Zhu Han, “Auction Based Resource Allocation for Cooperative Wireless Video Transmission,” *Multimedia Analysis, Processing, and Communications*, Springer, editors: Weisi Lin, Dacheng Tao, Janusz Kacprzyk, Zhu Li, Ebroul Lzquierdo, and Haohong Wang, 2011.
12. Rajatha Raghavendra and Zhu Han, “Friend or Foe in OFDM Interference Channel,” *Game Theory for Wireless Communication and Theory*, Auerbach Publications, Taylor & Francis Group, editors: Yan Zhang and Mohsen Guizani, 2011.
13. Jianwei Huang and Zhu Han, “Game Theory for Dynamic Spectrum Access,” invited, *Cognitive Radio Networks: Architectures, Protocols and Standards*, Auerbach Publications, Taylor & Francis Group, editors: Yan Zhang, Jun Zheng and Hsiao-Hwa Chen, 2010.
14. Yan Sun and Zhu Han, “Trusted Cooperative Transmission: Turning a Security Weakness into Security Enhancement,” *Securing Wireless Communications at the Physical Layer*, editors: Ruoheng Liu and Wade Trappe, Springer-Verlag, 2009.
15. Zhu Han and H. Vincent Poor, “Impact of Cooperative Transmission over Network Routing,” *Cooperative Wireless Communications*, Auerbach Publications, Taylor and Francis Group, editors: Yan Zhang, Hsiao-Hwa Chen and Mohsen Guizani, 2009.
16. Zhu Han, “Degrees of Cooperation in Dynamic Spectrum Access for Distributed Cognitive Radios,” invited, *Cognitive Wireless Communication Networks*, Springer, editors: Ekram Hossain and Vijay K. Bhargava, 2007.

Transaction/Magazine/Letter Publications

Published or Accepted

1. Xianfu Chen, Zhu Han, Honggang Zhang, Guoliang Xue, Yong Xiao, and Mehdi Bennis, “Wireless Resource Scheduling in Virtualized Radio Access Networks Using Stochastic Learning,” to appear, *IEEE Transactions on Mobile Computing*.
2. Xiuhua Li, Xiaofei Wang, Keqiu Li, Zhu Han, and Victor C. M. Leung, “Collaborative Multi-tier Caching in Heterogeneous Networks: Modeling, Analysis, and Design”, to appear, *IEEE Transactions on Wireless Communications*.
3. Nguyen Cong Luong, Dinh Thai Hoang, Ping Wang, Dusit Niyato, and Zhu Han, “Applications of Economic and Pricing Models for Wireless Network Security: A Survey,” to appear *IEEE Communications Surveys & Tutorials*.

4. Yanru Zhang, Yunan Gu, Miao Pan, Zaher Dawy, Nguyen Tran, and Zhu Han, "Energy-Aware Multi-Dimensional Incentive Mechanism in Crowdsourcing with Moral Hazard," to appear *IEEE Transactions on Mobile Computing*.
5. Zheng Chang, Shan Zhang, Zhongyu Wang, Xijuan Guo, Zhu Han, and Tapani Ristaniemi, "Energy Efficient Optimization for Large-Scale Multiple Antenna System with Wireless Power Transfer," to appear, *IET Communications*.
6. Yun Hu, S Hongyan Li, Zheng Chang, and Zhu Han, "End-to-End Backlog and Delay Bound Analysis based on Martingale Theory for Multi-Hop Vehicular Ad Hoc Networks," to appear *IEEE Transactions on Wireless Communications*.
7. Tingting Liu, Jun Li, Feng Shu, Meixia Tao, Wen Chen, Zhu Han, "Design of Contract-Based Trading Mechanism for A Small-Cell Caching System," to appear *IEEE Transactions on Wireless Communications*.
8. Biling Zhang, Yan Chen, Jung-Lang Yu, Bin Chen, and Zhu Han, "Indirect-Reciprocity Data Fusion Game and the Application to Cooperative Spectrum Sensing," to appear *IEEE Transactions on Wireless Communications*.
9. Nam Tuan Nguyen, Kae Won Choi, Lingyang Song, and Zhu Han, "Roommates: An Unsupervised Indoor Peer Discovery Approach for LTE D2D Communications," to appear *IEEE Transactions on Vehicular Technology*.
10. Zheng Chang, Xin Hou, Xijuan Guo, Zhu Han, and Tapani Ristaniemi, "Secure and Energy Efficient Resource Allocation for Wireless Power Enabled Full/Half Duplex Multiple-Antenna Relay Systems," to appear *IEEE Transaction on Vehicular Communication*.
11. Sicong Liu, Fang Yang, Jian Song, and Zhu Han, "Achieving 4G/5G Compatibility: Block Sparse Bayesian Learning Based NB-IoT Interference Elimination in LTE-Advanced Systems," to appear *IEEE Transactions on Communications*.
12. Zhenyu Zhou, Fei Chen, Yunjian Jia, Kimfung Tsang, Guangyi Liu, and Zhu Han, "Unlicensed Spectrum Sharing: From Coexistence to Convergence," to appear *IEEE Wireless Communication Magazine*, Special Issue on Dynamic Spectrum Management in 5G RE:Unlicensed Spectrum Sharing: From Coexistence to Convergence.
13. Xiao Tang, Pinyi Ren, and Zhu Han, "Distributed Power Optimization for Security-Aware Multi-Channel Full-Duplex Communications: A Variational Inequality Framework," to appear *IEEE Transactions on Communications*.
14. Dinh Thai Hoang, Dusit Niyato, Ping Wang, Dong In Kim, and Zhu Han, "Ambient Backscatter: A New Approach to Improve Network Performance for RF-Powered Cognitive Radio Networks," to appear *IEEE Transactions on Communications*.
15. Yangqing Li, Wei Chen, Changchuan Yin, and Zhu Han, "Approximate Message Passing for Recovering Structured Low-Rank Matrix from Compressive Measurements," to appear *IEEE Access*.
16. Simon Scott, Zaheer Khan, Zhu Han, and Marwan Krunz, "Distributed and Coordinated Spectrum Access Methods for Heterogeneous Channel Bonding," to appear *IEEE Transactions on Cognitive Communications and Networking*.

17. Huaqing Zhang, Yanru Zhang, Yunan Gu, Dusit Niyato, and Zhu Han, "A Hierarchical Game Framework for Resource Management in Fog Computing," to appear *IEEE Communications Magazine*, special issue on Fog Computing and Networking.
18. Boya Di, Lingyang Song, Yonghui Li, and Zhu Han, "V2X Meets NOMA: Non-Orthogonal Multiple Access for 5G Enabled Vehicular Networks," to appear *IEEE Wireless Communications*, special issue on Emerging Technology for 5G Enabled Vehicular Networks.
19. Hung Khanh Nguyen, Amin Khodaei, and Zhu Han, "Incentive Mechanism Design for Integrated Microgrids in Peak Ramp Minimization Problem," to appear *IEEE Transactions on Smart Grid*.
20. Yunan Gu, Chunxiao Jiang, Lin X. Cai, Miao Pan, Lingyang Song, and Zhu Han, "Dynamic Path To Stability in the LTE-Unlicensed with User Mobility: A Dynamic Matching Framework," to appear *IEEE Transaction on Wireless Communications*.
21. Zheng Chang, Zhongyu Wang, Xijuan Guo, Zhu Han, and Tapani Ristaniemi, "Energy Efficient Resource Allocation for Wireless Powered Massive MIMO System with Imperfect CSI," to appear *IEEE Transactions on Green Communications and Networking*.
22. S. M. Ahsan Kazmi, Nguyen H. Tran, Walid Saad, Zhu Han, Tai Manh Ho, Thant Zin Oo, and Choong Seon Hong, "Decentralized Spectrum Allocation for Interference Management in D2D underlying Cellular Networks," accepted, *IEEE Transactions on Mobile Computing*.
23. Huaqing Zhang, Yong Xiao, Shengrong Bu, Dusit Niyato, F. Richard Yu, and Zhu Han, "Computing Resource Allocation in Three-Tier IoT Fog Networks: a Joint Optimization Approach Combining Stackelberg Game and Matching", accepted *IEEE Internet Of Things Journal, Special Issue on Fog Computing in the Internet of Things*.
24. Jingjing Zhao, Yuanwei Liu, Kok Keong Chai, Arumugam Nallanathan, Yue Chen, and Zhu Han, "Spectrum Allocation and Power Control for Non-Orthogonal Multiple Access in HetNets," accepted, *IEEE Transactions on Wireless Communications*.
25. Tong-Xing Zheng, Hui-Ming Wang, and Zhu Han, "Physical Layer Security in Wireless Ad Hoc Networks Under A Hybrid Full-/Half-Duplex Receiver Deployment Strategy," to appear *IEEE Transactions on Wireless Communications*.
26. Hui-Ming Wang, Kewen Huang, Qian Yang, and Zhu Han, "Joint Source-Relay Secure Precoding for MIMO Relay Networks with Direct Links," to appear, *IEEE Transactions on wireless Communications*.
27. Xu Ma, Fang Yang, Sicong Liu, Jian Song, and Zhu Han, "Design and Optimization on Training Sequence for MmWave Communications: A New Approach for Sparse Channel Estimation in Massive MIMO," accepted, *IEEE Journal on Selected Areas in Communications*, special issue on Millimeter Wave Communications for Future Mobile Networks.
28. Ruozhou Yu, Guoliang Xue, Mehdi Bennis, Xianfu Chen, and Zhu Han, "HS-DRAN: Hierarchical Software-Defined Radio Access Network for Distributed Optimization," accepted *IEEE Transactions on Vehicular Technology*.

29. Yanru Zhang, Chunxiao Jiang, Lingyang Song, Miao Pan, Zaher Dawy, and Zhu Han, "Incentive Mechanism for Mobile Crowdsourcing Using an Optimized Tournament Model," to appear *IEEE Journal on Selected Areas in Communications*, Special Issue on Human-In-The-Loop Mobile Networks.
30. Mohammad Abu Alsheikh, Dusit Niyato, Derek Leong, Ping Wang, and Zhu Han, "Privacy Management and Optimal Pricing in People-Centric Sensing," to appear *IEEE Journals on Selected Areas on Communications*, Special issue on Human-In-The-Loop Mobile Networks.
31. Hung Khanh Nguyen, Hamed Mohsenian-Rad, Amin Khodaei, and Zhu Han, "Decentralized Reactive Power Compensation using Nash Bargaining Solution," to appear *IEEE Transactions on Smart Grid*.
32. Sicong Liu, Fang Yang, Xianbin Wang, Jian Song, and Zhu Han, "Structured Compressed Sensing Based Impulsive Noise Cancellation for MIMO Systems," to appear *IEEE Transactions on Vehicular Technology*.
33. Dusit Niyato, Dinh Thai Hoang, Ping Wang, and Zhu Han, "Cyber Insurance for Plug-In Electric Vehicle (PEV) Charging in Vehicle-to-Grid (V2G) Systems," to appear *IEEE Network*.
34. Nguyen Cong Luong, Ping Wang, Dusit Niyato, and Zhu Han, "Resource Management in Cloud Networking Using Economic Analysis and Pricing Models: A Survey," to appear *IEEE Communications Surveys & Tutorials*.
35. Jingjing Wang, Chunxiao Jiang, Zhu Han, Yong Ren, and Hanzo Lajos "Taking Drones to the Next Level," to appear *IEEE Vehicular Technology Magazine*.
36. Mohammad Abu Alsheikh, Yutao Jiao, Dusit Niyato, Ping Wang, Derek Leong, and Zhu Han, "The Accuracy-Privacy Tradeoff of Mobile Crowdsensing," to appear *IEEE Communications Magazines*, special issue on Sustainable Incentive Mechanisms For Mobile Crowdsensing.
37. Fahira Sangare, Yong Xiao, Niyato Dusit, and Zhu Han, "Mobile Charging in Wireless-Powered Sensor Networks: Optimal Scheduling and Experimental Implementation," to appear *IEEE Transactions on Vehicular Technology*.
38. Zijie Zheng, Lingyang Song, Dusit Niyato, and Zhu Han, "Resource Allocation in Wireless Powered Relay Networks: A Bargaining Game Approach," to appear *IEEE Transactions on Vehicular Technology*.
39. Biling Zhang, Chunxiao Jiang, Jung-Lang Yu, and Zhu Han, "A Contract Game for Direct Energy Trading in Smart Grid," to appear, *IEEE Transactions on Smart Grid*.
40. Francesco Chiti, Romano Fantacci, Daniel Mulato, Yunan Gu, Zhu Han, "Small-Worlds Networking in VANETs: a Dynamic Matching-based Approach," to appear, *Vehicular Communications*.
41. Huaqing Zhang, Yong Xiao, Shengrong Bu, Richard Yu, Dusit Niyato, and Zhu Han, "Distributed Resource Allocation for Data Center Networks: A Hierarchical Game Approach," accepted *IEEE Transactions on Cloud Computing*.
42. Dusit Niyato, Dong In Kim, Marco Maso and Zhu Han, "Wireless Powered Communication Networks: Research Directions and Technological Approaches," to appear *IEEE Wireless Communication Magazine*.

43. Md. Jalil Piran, Nguyen H. Tran, Doug Young Suh, Ju Bin Song, and Zhu Han, "QoE-Driven Channel Allocation and Handoff Management for Seamless Multimedia in Cognitive 5G Cellular Networks," to appear *IEEE Transactions on Vehicular Technology*.
44. Jun Du, Chunxiao Jiang, Zhu Han, Shui Yu, Qiang Guo and Yong Ren, "Resource Allocation in Space Multi-Access Systems," to appear *IEEE Transactions on Aerospace and Electronic Systems*.
45. Thant Zin Oo, Nguyen H. Tran, Walid Saad, Dusit Niyato, Zhu Han, and Choong Seon Hong, "Offloading in HetNet: A Coordination of Interference Mitigation, User Association, and Resource Allocation," to appear *IEEE Transactions on Mobile Computing*.
46. Hang Qin and Zhu Han, "Life-Cycle Well Control Optimization with Digital Oil Field Infrastructure," to appear *IEEE System Journals*.
47. Chuhan Gao, Yong Li, Yong Niu, Depeng Jin, Zhu Han, and Sheng Chen, "Evaluating the Impact of User Behavior on D2D Communications in Millimeter-wave Small Cells," to appear *IEEE Transactions on Vehicular Technology*.
48. Yiming Zhao, Wei Song, and Zhu Han, "Social-Aware Data Dissemination via Device-to-Device Communications: Fusing Social and Mobile Networks with Incentive Constraints," to appear *IEEE Transactions on Services Computing*.
49. Yanru Zhang, Lingyang Song, Chunxiao Jiang, Nguyen H. Tran, Zaher Dawy, and Zhu Han, "Social-Aware Framework for Efficient Information Dissemination in Wireless Ad Hoc Networks," to appear, *IEEE Communications Magazine*, Special issue on social and mobile solutions in ad hoc and sensor networking.
50. Hung Khanh Nguyen, Amin Khodaei, and Zhu Han, "A Big Data Scale Algorithm for Optimal Scheduling of Integrated Microgrids," to appear *IEEE Transactions on Smart Grid*.
51. Yanru Zhang, Miao Pan, Lingyang Song, Zaher Dawy, and Zhu Han, "A Survey of Contract Theory Based Incentive Mechanism Design in Wireless Networks," to appear *IEEE Wireless Communication Magazine*.
52. Mohammad Esmalifalak, Huy Nguyen, Rong Zheng, Le Xie, Lingyang Song, and Zhu Han, "Stealthy Attack Against Electricity Market Using Independent Component Analysis," to appear *IEEE System Journal*.
53. Tianyu Wang, Lingyang Song, Zhu Han, and Walid Saad, "Overlapping Coalition Formation Games for 5G Networks," to appear, *IEEE Network Magazine*.
54. Mohammad Esmalifalak, Lanchao Liu, Nam Nguyen, Rong Zheng, and Zhu Han, "Detecting Stealthy False Data Injection Using Machine Learning in Smart Grid," to appear, *IEEE Systems Journal*.
55. Qiuyang Shen, Jiefu Chen, Xuqing Wu, and Zhu Han, "Distributed Markov Chain Monte Carlo Method on Big-Data Platform for Large-Scale Geosteering Inversion Using Directional Electromagnetic Well Logging Measurements," *The Applied Computational Electromagnetics Society Journal*, special issue on big data in electromagnetics, vol. 32, no. 5, pp. 405–412, May 2017.

56. Zheng Chang, Tapani Ristaniemi, and Zhu Han, "Energy Efficient Optimization for Wireless Virtualized Small Cell Networks with Large Scale Multiple Antenna," *IEEE Transaction on Communications*, vol. 65, no. 4, pp. 1696-1707, April 2017.
57. Yang Zhang, Dusit Niyato, Ping Wang, Dong In Kim, and Zhu Han, "Optimal Wireless Energy Charging for Incentivized Content Transfer in Mobile Publish-Subscribe Networks," *IEEE Transactions on Vehicular Technology*, vol. 66, no. 4, pp. 3420-3434, April 2017.
58. Yun Hu, Hongyan Li, Zheng Chang, Jiandong Li, and Zhu Han, "Scheduling Strategy for Multimedia Heterogeneous High-Speed Train Networks," *IEEE Transactions on Vehicular Technology*, vol. 66, no. 4, pp. 3264-3279, April 2017.
59. Tuan LeAnh, Nguyen H. Tran, Mui Van Nguyen, Zhu Han, and Choong Seon Hong, "Distributed Power and Channel Allocation for Cognitive Femtocell Network using a Coalitional Game in Partition Form Approach," *IEEE Transactions on Vehicular Technology*, vol. 66 no. 4, pp. 3475-3490, April 2017.
60. Xiao Tang, Pinyi Ren, and Zhu Han, "Combating Full-Duplex Active Eavesdropper: A Game-Theoretical Perspective," *IEEE Transactions on Communications*, vol. 65, no. 3, pp. 1379-1395, March 2017.
61. Hung Khanh Nguyen, Yanru Zhang, Zheng Chang, and Zhu Han, "Parallel and Distributed Resource Allocation with Minimum Traffic Disruption for Wireless Network Virtualization," *IEEE Transactions on Communications*, vol. 65, no. 3, pp. 1162-1175, March 2017.
62. Yanru Zhang, Lingyang Song, Miao Pan, Zaher Dawy, and Zhu Han, "Non-Cash Auction for Spectrum Trading in Cognitive Radio Networks : A Contract Theoretical Model with Joint Adverse Selection and Moral Hazard," *IEEE Journals on Selected Areas on Communications*, Special Issue on Game Theory for Networks, vol. 35, no. 3, pp. 643-653, March 2017.
63. Chunxiao Jiang, Xiqin Wang, Zhu Han, Yong Ren, and Lajos Hanzo, "Information Credibility Modeling in Cooperative Networks: Equilibrium and Mechanism Design," *IEEE Journals on Selected Areas on Communications*, Special Issue on Game Theory for Networks, vol. 35, no. 2, pp. 432-448, February 2017.
64. Huici Wu, Xiaofeng Tao, and Zhu Han, "Secure Transmission in MISOME Wiretap Channel with Multiple Assisting Jammers: Maximum Secrecy Rate and Optimal Power Allocation," *IEEE Transactions on Wireless Communications*, vol. 65, no. 2, pp. 775-789, February 2017.
65. Zijie Zheng, Lingyang Song, and Zhu Han, "Bridge the Gap between ADMM and Stackelberg Game: Incentive Mechanism Design for Big Data Networks," *IEEE Signal Processing Letters*, vol. 24, no. 2, pp. 191-195, February 2017.
66. Zaheer Khan, Janne J. Lehtomaki, Stefano Iellamo, Risto Vuotoniemi, Ekram Hossain, and Zhu Han, "IoT Connectivity in Radar Bands: A Shared Access Model Based on Spectrum Measurements," *IEEE Communications Magazine*, special issue on Practical Perspectives on IoT in 5G Networks: From Theory to Industrial Challenges and Business Opportunities, vol.55, no.2, pp.88-96, February 2017.
67. Chungang Yang, Jiandong Li, Ekram Hossain, Prabodini Semasinghe, Samir Medina Perlaz, and Zhu Han, "Distributed Interference and Energy-Aware Power Con-

- trol for Ultra-Dense D2D Networks: A Mean Field Game,” *IEEE Transactions on Wireless Communications*, vol. 16, no. 2, pp. 1205-1217, February 2017.
68. Radwa Sultan, Lingyang Song, Karim G. Seddik, and Zhu Han, “Full-Duplex Meets Multiuser MIMO: Comparisons and Analysis,” *IEEE Transactions on Vehicular Technology*, vol. 66, no. 1, pp.455–467, January 2017.
 69. Huaqing Zhang, Yong Xiao, Lin X. Cai, Dusit Niyato, Lingyang Song, and Zhu Han, “A Multi-Leader Multi-Follower Stackelberg Game for Resource Management in LTE Unlicensed”, *IEEE Transactions on Wireless Communications*, vol. 16, no. 1, pp. 348-361, January 2017.
 70. Yuan Liu, Rui Wang, and Zhu Han, “Interference-Constrained Pricing for D2D Networks,” *IEEE Transactions on Vehicular Technology*, vol. 16, no. 1, pp. 475-486, January 2017.
 71. Yun Liao, Tianyu Wang, Lingyang Song, and Zhu Han, “Listen-and-Talk: Protocol Design and Analysis for Full-duplex Cognitive Radio Networks,” *IEEE Transactions on Vehicular Technology*, vol. 16, no. 1, pp. 656-667, January 2017.
 72. Boya Di, Tianyu Wang, Lingyang Song, and Zhu Han, “Collaborative Smartphone Sensing using Overlapping Coalition Formation Games,” *IEEE Transactions on Mobile Computing*, vol. 16, no. 1, pp. 30-43, January 2017.
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114. 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.
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127. 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.
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129. 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.
130. 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.
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133. 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.

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139. 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.
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144. 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.
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150. 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.
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153. 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.
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156. Ramy E. Ali, Fadel F. Digham, Karim G. Seddik, Mohammed Nae, and Zhu Han, "A Probabilistic MAC for Cognitive Radio Systems with Energy Harvesting Nodes," *IEEE globasip*, Atlanta, December, 2014.
157. Husheng Li and Zhu Han, "Communication Requirement for Distributed Statistical Machine Learning with Application in Waveform Cognition," *IEEE globasip*, Atlanta, December, 2014.
158. Erte Pan and Zhu Han, "Non-parametric Bayesian Learning with Deep Learning Structure and Its Applications in Wireless Networks," *IEEE globasip*, Atlanta, December, 2014.
159. Radwa Aly Sultan, Lingyang Song, and Zhu Han, "Impact of Full Duplex on Resource Allocation for Small Cell Networks," *IEEE globasip*, Atlanta, December, 2014.

160. 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.
161. 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.
162. Lanchao Liu, Shaolei Ren, and Zhu Han, "Scalable Workload Management for Water Efficiency in Data Centers," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
163. 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.
164. 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.
165. Erte Pan, Miao Pan, Zhu Han, and Vernaldo Wright, "Mobile Trace Inference Based on Tensor Voting," *IEEE Global Communications Conference*, December, Austin, TX, 2014.
166. 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.
167. 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**.
168. 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.
169. 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.
170. 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.
171. 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.
172. 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.
173. 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.

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175. 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.
176. 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.
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179. 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.
180. 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.
181. 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.
182. 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.
183. 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.
184. 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.
185. 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.
186. 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.

187. 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.
188. 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.
189. Hongliang Zhang, Lili Ma, Lingyang Song, and Zhu Han, "Wireless Device-to-Device Hypergraph Optimization," *IEEE INFOCOM, Student Activities*, Toronto, Canada, April-May, 2014.
190. 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.
191. 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.
192. 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.
193. 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.
194. 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.
195. 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.
196. 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.
197. 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.
198. 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.
199. 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.
200. 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.
201. 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.
 202. 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.
 203. 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.
 204. 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.
 205. 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.
 206. 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.
 207. 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.
 208. 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.
 209. 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.
 210. 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.
 211. 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.
 212. 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.

213. 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.
214. 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.
215. 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.
216. 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.
217. 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.
218. Tianyu Wang, Lingyang Song, Zhu Han, Zhaohua Lu, and Liujuan Hu, "Popular Content Distribution in Vehicular Networks using Coalition Formation Games," *IEEE International Conference on Communications*, Budapest, Hungary, June 2013.
219. 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.
220. 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.
221. 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.
222. 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.
223. 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.
224. 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.

225. 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.
226. 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.
227. 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.
228. 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.
229. 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.
230. 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.
231. 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.
232. 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.
233. 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.
234. 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.
235. 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.
236. 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.

237. 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.
238. 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.
239. 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.
240. 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.
241. 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.
242. 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.
243. 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.
244. 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.
245. Feiran Wang, Chen Xu, Lingyang Song, and Zhu Han, "Energy-Efficient Radio Resource and Power Allocation for Device-to-Device Communication Underlying Cellular Networks," Fourth International Conference on Wireless Communications and Signal Processing, **Best Paper Award**, Huangshan City, China, October 2012.
246. 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.
247. 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.
248. 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.
249. Ziqiang Feng, Jun Deng, Lingyang Song, Zhu Han, 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.
 250. 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**.
 251. 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.
 252. 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.
 253. 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.
 254. 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.
 255. 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.
 256. 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.
 257. 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.
 258. 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.
 259. 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.

260. 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.
261. 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.
262. 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.
263. 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)**.
264. 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.
265. 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)**.
266. 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.
267. 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.
268. 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.
269. 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.
270. 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.
271. 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.

272. 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.
273. 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.
274. 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.
275. 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.
276. 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.
277. 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.
278. 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.
279. 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.
280. 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.
281. Husheng Li and Zhu Han, "Synchronization of Power Networks Without and With Communication Infrastructures," *IEEE International Conference on Smart Grid Communications, Smartgridcomm*, October 2011.
282. 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.
283. 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.

284. 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.
285. 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.
286. 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.
287. 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.
288. 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.
289. 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.
290. 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.
291. 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.
292. 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.
293. 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.
294. 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.
295. 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.

296. 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 Cooperative Networks*, INFOCOM Workshop, Shanghai, China, April 2011.
297. 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.
298. 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.
299. 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.
300. Zhou Yuan, Dusit Niyato, Husheng Li, and Zhu Han, "Defense Against Primary User Emulation Attacks Using Belief Propagation of Location Information in Cognitive Radio Networks," *IEEE Wireless Communications and Networking Conference*, Cancun, Mexico, March 2011.
301. Dusit Niyato, Ping Wang, Walid Saad, Zhu Han, and Are Hjørungnes, "Coalition Formation Games for Relay Transmission: Stability Analysis under Uncertainty," *IEEE Wireless Communications and Networking Conference*, Cancun, Mexico, March 2011.
302. Fabian Rozario, Zhu Han, and Dusit Niyato, "Optimization of Non-cooperative P2P Network from the Game Theory Point of View," *IEEE Wireless Communications and Networking Conference*, Cancun, Mexico, March 2011.
303. Dusit Niyato, Ping Wang, Zhu Han, and Ekram Hossain, "Impact of Packet Loss on Power Demand Estimation and Power Supply Cost," *IEEE Wireless Communications and Networking Conference*, Cancun, Mexico, March 2011.
304. Wenkai Wang, Yan Sun, Husheng Li, and Zhu Han, "Cross-layer Attack and Defense in Cognitive Radio Networks," *IEEE Globe Communication Conference (Globecom)*, Miami, FL, Nov.-Dec. 2010.
305. Walid Saad, Zhu Han, Tamer Basar, Merouane Debbah, and Are Hjørungnes, "A Coalition Formation Game in Partition Form for Peer-to-Peer File Sharing Networks," *IEEE Globe Communication Conference (Globecom)*, Miami, FL, Nov.-Dec. 2010.
306. Rongqing Zhang, Lingyang Song, Zhu Han, Bingli Jiao, and Merouane Debbah, "Physical Layer Security for Two Way Relay Communications with Friendly Jammers," *IEEE Globe Communication Conference (Globecom)*, Miami, FL, Nov.-Dec. 2010.
307. Dusit Niyato, Zhu Han, Walid Saad, and Are Hjørungnes, "A Controlled Coalitional Game for Wireless Connection Sharing and Bandwidth Allocation in Mobile Social Networks," *IEEE Globe Communication Conference (Globecom)*, Miami, FL, Nov.-Dec. 2010.

308. Quanyan Zhu, Zhou Yuan, Ju Bin Song, Zhu Han, and Tamer Basar, "Dynamic Interference Minimization Routing Game for On-Demand Cognitive Pilot Channel," *IEEE Globe Communication Conference (Globecom)*, Miami, FL, Nov.-Dec. 2010.
309. Behrouz Maham, Walid Saad, Merouane Debbah, Zhu Han, and Are Hjørungne, "Efficient Cooperative Protocols for General Outage-Limited Multihop Wireless Networks," invited, in proceeding of *the 21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Istanbul, Turkey, September 2010.
310. Behrouz Maham, Are Hjørungne, and Zhu Han, "Multihop transmission with interference using spatial reused space-time coded cooperative-routing," *5th Advanced satellite multimedia systems conference (asma) and the 11th signal processing for space communications workshop (spsc)*, September 2010.
311. Dan Xu, Xin Liu, and Zhu Han, "A Two-Tier Market for Decentralized Dynamic Spectrum Access in Cognitive Radio Networks," *Seventh Annual IEEE Communications Society Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON)*, Boston, MA, June 2010.
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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), April 2016.
- North American Chinese Soccer Tournament 99, Grand National Champion, New Brunswick, New Jersey, May 1999. Member of Team Maryland Hunter.
- 65 Countries Visited. Highest Point: Summit of Kilimanjaro, 5895m. 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'.