

CURRICULUM VITAE

Jianwei Huang

(Updated: June 5, 2017)

CAREER SUMMARY

• Research Outputs

- 6 books, 12 book chapters, 91 journal/magazine papers, 133 conference papers
- Google Scholar citations: 7711 (H-Index: 44, i10-Index: 121), SCI citations: 3221 (H-index: 27)

• Research Awards

- IEEE Fellow, Class of 2016
- Thomson Reuters Highly Cited Researcher in Computer Science, 2016
- IEEE Communications Society Distinguished Lecturer, 2015 – 2018
- Shanghai Thousand Talents Expert Award, 2015 – 2018
- CUHK Focused Innovation Scheme for High Impact Research, 2014
- CUHK Young Researcher Award, 2014
- IEEE INFOCOM Best Paper Award Finalist, 2016
- IEEE WiOPT Best Student Paper Award, 2015
- IEEE WiOPT Best Paper Awards, 2013 & 2014
- IEEE SmartGridComm Best Paper Award, 2012
- IEEE Marconi Prize Paper Award in Wireless Communications, 2011
- WiCON Best Paper Award, 2011
- GameNets Best Paper Award Finalist, 2011
- IEEE GLOBECOM Best Paper Award, 2010
- APCC Best Paper Award, 2009
- IEEE Communication Society Asia-Pacific Outstanding Young Researcher Award, 2009

• Service Awards

- IEEE Multimedia Communications Technical Committee Distinguished Service Award, 2015
- IEEE Global Communications Conference (GLOBECOM) Outstanding Service Award, 2010
- IWCMC 2010 Conference Best Symposium Award, 2010

• Research Funding

- PI of 8 HK GRF projects (successful rate 8/9), total HK\$5.9 Millions
- Co-I of 4 projects (including one AoE and one Theme-based projects), total HK\$200 Millions

• Students and Postdoc Supervision

- Graduate students: 9 PhDs and 3 Masters graduated (3 become faculty members), 7 ongoing
- Visiting students: 18 (from Canada, Switzerland, Greece, Singapore, India, Iran, and China)
- Postdocs Researchers: 6 (PhDs from Canada, UK, Hong Kong, and China, 4 become faculty members)

• Selected Professional Services

- Chair, IEEE Communications Society Cognitive Networks Technical Committee
- Chair, IEEE Communications Society Multimedia Communications Technical Committee
- Associate Editor-in-Chief, *IEEE Communications Society Technology News*
- Editor, *IEEE/ACM Transactions on Networking*
- Editor, *IEEE Journal on Selected Areas in Communications (Cognitive Radio Series)*
- Editor, *IEEE Transactions on Wireless Communications*
- Editor, *IEEE Transactions on Network Science and Engineering*
- Editor, *IEEE Transactions on Cognitive Communications and Networking*
- Steering Committee Member, *IEEE Transactions on Multimedia* and *IEEE ICME*
- Guest editor of 9 top journal special issues, including three in *IEEE Journal on Selected Areas in Communications (IF: 4.138)* and one in *IEEE Transactions on Smart Grid (IF: 4.334)*
- Conferences: 32 times as organizing committee members, 51 times as TPC members (including INFOCOM 2009-2018, Mobihoc 2009, 2012-2014, 2016, 2017)

PERSONAL DATA

- Department of Information Engineering, The Chinese University of Hong Kong (CUHK)
- Room 718, Ho Sin-Hang Engineering Building, jwhuang@ie.cuhk.edu.hk
- <http://jianwei.ie.cuhk.edu.hk>, <http://ncel.ie.cuhk.edu.hk>

EDUCATION

- **Doctor of Philosophy** 10/2005
Electrical & Computer Engineering, Northwestern University, Evanston, Illinois, USA
 - Thesis Advisors: Prof. Michael L. Honig and Prof. Randall Berry
 - Thesis: Wireless Resource Allocations: Auctions, Games and Optimization
- **Master of Science** 07/2003
Electrical & Computer Engineering, Northwestern University, Evanston, Illinois, USA
 - Thesis Advisors: Prof. Michael L. Honig and Prof. Randall Berry
 - Thesis: Utility-based Downlink Scheduling in Wireless Networks with Hybrid ARQ
- **Bachelor of Engineering** 07/2000
Information Engineering, Southeast University, Nanjing, Jiangsu, China

PROFESSIONAL EXPERIENCES

- **Professor** 08/2017 –
Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong
- **Associate Professor** 08/2013 – 07/2017
Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong
- **Assistant Professor** 08/2007 – 08/2013
Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong
- **Post-doctoral Research Associate** 11/2005 – 07/2007
Department of Electrical Engineering, Princeton University, Princeton, New Jersey, USA
- **Research Assistant** 08/2002 – 10/2005
Department of Electrical & Computer Engineering, Northwestern University, Evanston, Illinois, USA
- **Summer Intern** 06/2004 – 08/2004, 06/2005 – 07/2005
Network Advanced Technology Group, Motorola Inc., Arlington Heights, Illinois, USA

MAIN RESEARCH INTERESTS

- Network games and economics
- Network performance optimization
- Wireless scheduling and resource allocation
- Smart grid economics

AWARDS AND HONORS

- **Research Recognition and Awards**
 1. IEEE Fellow, Class of 2016
 - Citation: for contributions to resource allocation in wireless systems

- One of the youngest IEEE Fellows elected in the Class of 2016 (age 37)
- 2. Thomson Reuters Highly Cited Researcher (HCR) in Computer Science, 2016
 - A total of 127 HCRs in Computer Science worldwide in 2016, including three from Hong Kong.
- 3. Shanghai Thousand Talents Expert Award (Short-Term), 2015-2018
- 4. IEEE Communications Society Distinguished Lecturer, 2015 - 2018
- 5. The Chinese University of Hong Kong Young Researcher Award, 2014
 - One recipient from the Faculty of Engineering at CUHK
- 6. IEEE Communication Society Asia-Pacific Outstanding Young Researcher Award, 2009
 - This award is given to a top young researcher (under 35) active in IEEE Communication Society over the last 3 years
- 7. Global Scholarship for Research Excellence, The Chinese University of Hong Kong, 2010
 - The award supports a junior faculty member with an excellent research record to visit top international universities to establish research collaborations
- 8. Walter P. Murphy Fellowship, Northwestern University, 2001-2002

• Best Paper Awards

1. IEEE Marconi Prize Paper Award in Wireless Communications, 2011
 - Award paper: L. Qian, Y. Zhang, and J. Huang, "MAPEL: Achieving Global Optimality for a Non-convex Wireless Power Control Problem," *IEEE Transactions on Wireless Communications*, vol. 8, no. 3, pp. 1553-1563, March 2009
 - The award is given to the single best paper selected among 1755 papers published in *IEEE Transactions on Wireless Communications* during 2008-2010
 - *IEEE Transactions on Wireless Communications* is the 2nd largest journal of IEEE, has an impact factor 2.152 and 5-year impact factor 2.679, and ranks 9/80 in Telecommunication category by SCI Journal Citation Reports
2. International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt) Best Student Paper Award, Mumbai, India, May 2015
 - Award paper: Q. Ma, L. Gao, Y. Liu, and J. Huang, "A Game-Theoretic Analysis of User Behaviors in Crowdsourced Wireless Community Networks"
3. International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt) Best Paper Award, Hammamet, Tunisia, May 2014
 - Award paper: Y. Luo, L. Gao, and J. Huang, "Trade Information, Not Spectrum: A Novel TV White Space Information Market Model"
4. International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt) Best Paper Award, Tsukuba Science City, Japan, May 2013
 - Award paper: G. Iosifidis, L. Gao, J. Huang, and L. Tassiulas, "An Iterative Double Auction for Mobile Data Offloading"
5. IEEE International Conference on Smart Grid Communications (SmartGridComm) Best Paper Award, Tainan City, Taiwan, November 2012
 - Award paper: C. Wu, H. Mohsenian-Rad, and J. Huang, "PEV-based Reactive Power Compensation for Wind DG Units: A Stackelberg Game Approach"
6. ICST International Conference on Wireless Internet (WiCON) Best Paper Award, Xi'An, China, October 2011
 - Award paper: Y. Yan, J. Huang, and J. Wang, "Dynamic Bayesian Spectrum Bargaining with Non-Myopic Users"
7. IEEE Global Communications Conference (GLOBECOM) Best Paper Award, Miami, USA, December 2010
 - Award paper: F. Hou and J. Huang, "Dynamic Channel Selection in Cognitive Radio Network with Channel Heterogeneity"

8. Asia-Pacific Conference on Communications Best Paper Award, Shanghai, China, October 2009
 - Award paper: J. Huang and X. Huang, "Revenue Management for Cognitive Spectrum Underlay Networks: An Interference Elasticity Perspective"

- **Service Awards**

1. IEEE Communications Society Multimedia Communications Technical Committee (MMTC) Distinguished Service Award, 2015
 - For exemplary services contributions to MMTC over a sustained period of time.
2. IEEE Global Communications Conference (GLOBECOM) Outstanding Service Award, 2010
3. IWCMC 2010 Conference Best Symposium Award, 2010

EDITORSHIP

1. Editor, *IEEE Transactions on Network Science and Engineering*, 03/2017 - now
2. Area Editor, *Springer Encyclopedia of Wireless Networks (Area on Network Economics and pricing)*, 02/2017 - now
3. Section Editor, *Springer Handbook of Cognitive Radio (Section on Cognitive Radio Resource Management)*, 02/2016 - now
4. Editor, *IEEE/ACM Transactions on Networking* (Impact factor: 2.186), 12/2016 - now
5. Founding Editor, *IEEE Transactions on Cognitive Communications and Networking*, 01/2015 - now
6. Editor, *IEEE Transactions on Wireless Communications* (Impact factor: 2.762), 07/2010 - 06/2015
7. Founding Editor, *IEEE Journal on Selected Areas in Communications - Cognitive Radio Series* (Impact factor: 4.138), 10/2011 - 12/2014
8. Associate Editor-in-Chief, *IEEE Communication Society Technology News*, 01/2014 - 04/2014
9. Editor, *IEEE Communication Society Technology News*, 11/2012 - 12/2013
10. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 4.138), special issue on "Game Theory for Networks," 2017
11. Guest Editor, *IEEE Transactions on Smart Grid* (Impact factor: 4.334), special Issue on "Big Data Analytics for Grid Modernization," 04/2016
12. Guest Editor, *IEEE Network* (Impact factor: 3.72), special issue on "Smart Data Pricing," 03/ 2016
13. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 4.138), special issue on "Economics of Communication Networks and Systems," 10/ 2012
14. Lead Guest Editor, *IEEE Communications Magazine* (Impact factor: 4.460), special issue on "Communications Network Economics," 09/2012
15. Lead Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 4.138), special issue on "Game Theory in Communication Systems," 09/2008
16. Associate Editor, (*Elsevier*) *Journal of Computer & Electrical Engineering*, 03/2007– 03/2010
17. Guest Editor, (*Wiley*) *Wireless Communications and Mobile Computing*, special issue on "Innovative Communications for a Better Future," 12/2010
18. Lead Guest Editor, *Journal of Communications*, special issue on "Cognitive Radio Enabled Communication and Networking," 10/2009
19. Lead Guest Editor, (*Hindawi*) *Advances of Multimedia*, special issue on "Collaborating and Optimization in Multimedia Communications," 2008
20. Guest Editor, (*Hindawi*) *Advances of Multimedia*, special issue on "Cross-layer Optimized Wireless Multimedia Communications," 2007

RESEARCH GRANTS

- Principle Investigator, “Collaborative Economics of Wireless Networks”, General Research Fund, Hong Kong Research Grants Council, 01/07/2016 – 30/06/2019, HKD 675,647
- Principle Investigator, CUHK Focused Innovation Scheme - Scheme D: Support for High-Impact Scholarship, 2015, HKD 100,000
- Principle Investigator, “Economic Mechanism Design for Mobile Crowd Sensing” (reference number 14206315), General Research Fund, Hong Kong Research Grants Council, 01/07/2015 – 30/06/2018, HKD 696,029
- Principle Investigator, “Building Future Mobile Broadband Networks with Cellular Wi-Fi Integrations” (reference number 14202814), General Research Fund, Hong Kong Research Grants Council, 01/07/2014 – 30/06/2017, HKD 691,167
- Principle Investigator, “Coordination and Competition in Shared Spectrum: Market Mechanisms and Protocol Designs” (reference number 412713), General Research Fund, Hong Kong Research Grants Council, 01/01/2014 – 31/12/2016, HKD 836,450
- Principle Investigator, “Economic Viability of Dynamic Spectrum Management” (reference number 412511), General Research Fund, Hong Kong Research Grants Council, 30/10/2011 – 29/10/2014, HKD 1,078,125
- Principle Investigator, “Revenue Management for Wireless Data Networks” (reference number 412710), General Research Fund, Hong Kong Research Grants Council, 01/09/2010 – 31/08/2013, HKD 1,159,200
- Principle Investigator, “Dynamic Spectrum Sharing for Next Generation Wireless Networks” (reference number 412509), General Research Fund, Hong Kong Research Grants Council, 01/01/2010 – 31/12/2011, HKD 452,952
- Principle Investigator, “Utility-Optimal Design of Wireless Random Medium Access Control” (reference number 412308), General Research Fund, Hong Kong Research Grants Council, 01/09/2008 – 31/08/2010, HKD 289,966
- Co-Investigator, “Achieving QoE-aware Adaptive Mobile Video Streaming over Software Defined Networks” (reference number 61572538), National Natural Science Foundation of China, 01/01/2016 – 31/12/2019, RMB 660,000
- Co-Investigator, “Smart Solar Energy Harvesting, Storage and Utilization” (reference number T23-407/13-N), Theme-based Research Scheme, Hong Kong Research Grants Council, 01/01/2014 – 31/12/2018, HKD 50,000,000
- Co-Investigator, “Institute of Network Coding” (reference number EE09360), Areas of Excellence, Hong Kong Research Grants Council, 01/01/2010 – 31/12/2017, HKD 80,270,000
- Co-Investigator, “Resource Allocation and Operations Management of Cognitive Wireless Networks Based on Microeconomics Theory,” Interdisciplinary Research Fund, Tsinghua National Lab of Information Science and Technology, 01/07/2010 – 30/06/2012, HKD 183,845
- Co-Investigator, “Research and Development of Software Testing and Service Platform for Telecommunication Service Providers” (reference number 2007BAH17B04), National Key Technology R&D Program, Chinese Ministry of Science and Technology, 01/09/2007 – 31/08/2010, HKD 72,202,249
- Principle Investigator, “Distributed Resource Allocation in Cooperative Networks” (reference number C001-2050398), Direct Allocation, Hong Kong Research Grants Council, 01/11/2007 – 30/10/2010, HKD150,000
- Principle Investigator, “Research of Next Generation Wireless Networks,” Collaboration Research, Nanjing University of Post and Telecommunications, 01/04/2009 – 30/03/2011, HKD 566,303

RESEARCH OUTPUTS

The pdf files of all book chapters, published journal papers, and published conference papers can be downloaded from <http://ncel.ie.cuhk.edu.hk/publications>.

- **Books (* denotes corresponding author, † denotes student/RA/Postdoc)**

- (M1) Y. Wu, L. Qian*, J. Huang, and X. Shen, *Cooperative Traffic Off-Loading in Heterogeneous Cellular Networks*, Springer, forthcoming
- (M2) Y. Luo†, L. Gao†, and J. Huang*, *Economics of Database-Assisted Spectrum Sharing*, Springer, July 2016
- (M3) X. Chen† and J. Huang*, *Social Cognitive Radio Networks*, Springer, January 2015
- (M4) L. Duan†, J. Huang*, and B. Shou, *Cognitive Mobile Virtual Network Operator Games*, Springer, October 2013
- (M5) Y. Zhang*, L. Qian†, and J. Huang, *Monotonic Optimization in Communication and Networking Systems*, Foundation and Trends in Networking, Now Publisher, October 2013
- (M6) J. Huang* and L. Gao†, *Wireless Network Pricing*, Synthesis Lectures on Communication Networks, Morgan & Claypool, July 2013

- **Refereed Book Chapters († denotes student/RA/Postdoc)**

- (B1) X. Chen, and J. Huang, "Spatial Spectrum Access Game," chapter in *Handbook of Cognitive Radio*, W. Zhang (editor-in-chief), Springer, accepted in March 2017
- (B2) L. Qian, Y. Wu, Y.J. Zhang, and J. Huang, "Demand Response Management via Real-Time Electricity Price Control in Smart Grids," chapter in *Smart Grid: Networking, Data Management, and Business Models*, H.T. Mouftah and M. Erol-Kantarci (editors), CRC Press, April 2016
- (B3) X. Chen† and J. Huang, "Self-Organizing Spectrum Access with Geo-location Database," chapter in *Game Theory Framework Applied to Wireless Communication Networks*, C. Yang and J. Li (editors), IGI Global, August 2015
- (B4) S. Li† and J. Huang, "Usage-based Pricing Differentiation: Incomplete Information and Limited Pricing Choices," chapter in *Smart Data Pricing*, S. Sen, C. Joe-Wong, S. Ha, and M. Chiang (editors), John Wiley & Sons, August 2014
- (B5) J. Huang, "Economic Viability of Dynamic Spectrum Management," chapter in *Mechanisms and Games for Dynamic Spectrum Allocation*, T. Alpcan, H. Boche, M. Honig, and H. Poor (editors), Cambridge University, February 2014
- (B6) L. Fu†, H. Kim†, J. Huang, S.C. Liew, and M. Chiang, "Energy Conservation of Mobile Terminals in Multi-Cell TDMA Networks," chapter in *Green Communications: Theoretical Fundamentals, Algorithms, and Applications*, J. Wu, S. Rangan, and H. Zhang (editors), CRC Press, October 2012
- (B7) S. Gong†, P. Wang, and J. Huang, "Robust Performance of Spectrum Sensing in Cognitive Radio Networks," chapter in *Cognitive Radio and Interference Management: Technology and Strategy*, M.-L. Ku and J.-C. Lin (editors), IGI Global, August 2012
- (B8) C. Wu†, A.H. Mohsenian-Rad, and J. Huang, "Vehicle-to-Grid Systems: Ancillary Services And Communications," chapter in *Smart Grid Communications and Networking*, E. Hossain, Z. Han, and V. Poor (editors), Cambridge University, May 2012
- (B9) X. Ji†, J. Huang, M. Chiang, G. Lafruit, and F. Catthoor, "Scheduling and Resource Allocation for SVC Streaming over OFDM Downlink Systems," chapter in *Recent Advances of Video Coding*, J. Lorente (editor), InTech, July 2011
- (B10) D. Xu, J. Dwoskin†, J. Huang, T. Lan†, R. Lee, and M. Chiang, "Key Management in Wireless Sensor Networks," chapter in *Theoretical Aspects of Distributed Computing in Sensor Networks*, S. Nikolettseas and J. D.P. Rolim (editors), Springer, September 2010
- (B11) J. Huang and Z. Han, "Game theory for Spectrum Sharing," chapter in *Cognitive Radio Networks: Architectures, Protocols, and Standards*, Auerbach Publications, Y. Zhang, J. Zheng, and H.-H. Chen (editors), Auerbach Publications, CRC Press, May 2010
- (B12) J. Huang, V. Subramanian, R. Berry, and R. Agrawal, "Scheduling and Resource Allocation in OFDMA Wireless Communication Systems," chapter in *Orthogonal Frequency Division Multiple Access Fundamentals and Applications*, T. Jiang, L. Song, and Y. Zhang (editors), Auerbach Publications, CRC Press, April 2010

- **Journal and Magazine Publications (* denotes corresponding author, † denotes student/RA/Postdoc)**

- (J1) H. Yu†, M. Cheung†, G. Iosifidis, L. Gao†, L. Tassiulas, and J. Huang*, "Mobile Data Offloading for Green Wireless Networks," *IEEE Wireless Communications*, accepted in March 2017

Table 1: Impact Factors of Selected Top Journals

Journal Title	Impact Factor	# of My Publications
<i>IEEE Transactions on Smart Grid</i>	4.334	7
<i>IEEE Journal on Selected Areas in Communications</i>	4.138	25
<i>IEEE Transactions on Mobile Computing</i>	2.912	21
<i>IEEE Transactions on Wireless Communications</i>	2.762	13
<i>IEEE/ACM Transactions on Networking</i>	1.986	7

- (J2) H. Shah-Mansouri[†], V. Wong*, and J. Huang, "An Incentive Framework for Mobile Data Offloading Market under Price Competition," *IEEE Transactions on Mobile Computing*, IEEE Early Access Article, 2017
- (J3) H. Yu[†], M. Cheung[†], L. Gao[†], and J. Huang*, "Public Wi-Fi Monetization via Advertising," *IEEE/ACM Transactions on Networking*, IEEE Early Access Article, 2017
- (J4) M. Cheung[†], F. Hou*, J. Huang, and R. Southwell[†], "Congestion-Aware Distributed Network Selection for Integrated Cellular and Wi-Fi Networks," *IEEE Journal on Selected Areas in Communications*, IEEE Early Access Article, 2017
- (J5) S. Bahrami[†], V. Wong*, and J. Huang, "An Online Learning Algorithm for Demand Response in Smart Grid," *IEEE Transactions on Smart Grid*, IEEE Early Access Article, 2017
- (J6) G. Iosifidis[†], L. Gao[†], J. Huang*, and L. Tassiulas, "Efficient and Fair Collaborative Mobile Internet Access," *IEEE/ACM Transactions on Networking*, IEEE Early Access Article, 2016
- (J7) H. Wang[†] and J. Huang*, "Incentivizing Energy Trading for Interconnected Microgrids," *IEEE Transactions on Smart Grid*, IEEE Early Access Article, 2017
- (J8) Q. Ma[†], L. Gao^{†*}, Y. Liu, and J. Huang, "Economic Analysis of Crowdsourced Wireless Community Networks," *IEEE Transactions on Mobile Computing*, IEEE Early Access Article, 2016
- (J9) H. Yu[†], M. Cheung[†], and J. Huang*, "Cooperative Wi-Fi Deployment: A One-to-Many Bargaining Framework," *IEEE Transactions on Mobile Computing*, vol. 16, no. 6, pp. 1536-1233, June 2017
- (J10) M. Tang[†], L. Gao[†], H. Pang[†], J. Huang*, and L. Sun, "Optimizations and Economics of Crowdsourced Mobile Streaming," *IEEE Communications Magazine*, vol. 55, no. 4, pp. 21 - 27, April 2017
- (J11) J. Yu[†], M. Cheung[†], J. Huang*, and V. Poor, "Mobile Data Trading: Behavioral Economics Analysis and Algorithm Design," *IEEE Journal on Selected Areas in Communications*, vol. 35, no. 4, pp. 994 - 1005, April 2017
- (J12) T. Luo*, S. Kanhere, J. Huang, S. Das, and F. Wu, "Sustainable Incentives for Mobile Crowdsensing: Auctions, Lotteries, Trust and Reputation Systems," *IEEE Communications Magazine*, vol. 55, no. 3, pp. 68 - 74, March 2017
- (J13) W. Yuan[†], J. Huang*, and Y. Zhang, "Competitive Charging Station Pricing for Plug-in Electric Vehicles," *IEEE Transactions on Smart Grid*, vol. 8, no. 2, pp. 627 - 639, March 2017
- (J14) H. Wang[†] and J. Huang*, "Joint Investment and Operation of Microgrid," *IEEE Transactions on Smart Grid*, vol. 8, no. 2, pp. 833 - 845, March 2017
- (J15) L. Gao[†], L. Duan, and J. Huang*, "Two-sided Matching Based Cooperative Spectrum Sharing," *IEEE Transactions on Mobile Computing*, vol. 16, no. 2, pp. 538 - 551, February 2017
- (J16) S. Li, Z. Shao*, and J. Huang, "ARM: Anonymous Rating Mechanism for Discrete Power Control," *IEEE Transactions on Mobile Computing*, vol. 16, no. 2, pp. 326 - 340, February 2017
- (J17) H. Yu[†], G. Iosifidis[†], J. Huang*, and L. Tassiulas, "Auction-Based Competition between LTE Unlicensed and Wi-Fi," *IEEE Journal on Selected Areas in Communications*, vol. 35, no. 1, pp. 79 - 90, January 2017
- (J18) Y. Wu, J. Chen[†], L. Qian*, J. Huang, and X. Shen, "Energy-Aware Cooperative Traffic Offloading via Device-to-Device Cooperations: An Analytical Approach," *IEEE Transactions on Mobile Computing*, vol. 16, no. 1, pp. 97 - 114, January 2017

- (J19) Y. Luo[†], L. Gao[†], and J. Huang*, "An Integrated Spectrum and Information Market for Green Cognitive Communications," *IEEE Journal on Selected Areas in Communications*, vol. 34, no. 12, pp. 3326 - 3338, December 2016
- (J20) Y. Wu*, K. Guo[†], J. Huang, and X. Shen, "Secrecy-based Energy-Efficient Data Offloading via Dual-Connectivity over Unlicensed Spectrums," *IEEE Journal on Selected Areas in Communications*, vol. 34, no. 12, pp. 3252 - 3270, December 2016
- (J21) J. Yu[†], M. Cheung[†], and J. Huang*, "Spectrum Investment under Uncertainty: A Behavioral Economics Perspective," *IEEE Journal on Selected Areas in Communications*, vol. 34, no. 10, pp. 0733-8716, October 2016
- (J22) Q. Ma[†], Y. Liu, and J. Huang*, "Time and Location Aware Mobile Data Pricing," *IEEE Transactions on Mobile Computing*, vol. 15, no. 10, pp. 1536-1233, October 2016
- (J23) H. Wang[†] and J. Huang*, "Cooperative Planning of Renewable Generations for Interconnected Microgrids," *IEEE Transactions on Smart Grid*, vol. 7, no. 5, pp. 2486 - 2496, September 2016
- (J24) C. Jiang[†], L. Duan, and J. Huang*, "Optimal Pricing and Admission Control for Heterogeneous Secondary Users," *IEEE Transactions on Wireless Communications*, vol. 15, no. 8, pp. 5218 - 5230, August 2016
- (J25) L. Gao[†], B. Shou*, Y.J. Chen, and J. Huang, "Combining Spot and Futures Markets: A Hybrid Market Approach to Dynamic Spectrum Access," *Operations Research*, vol. 64, no. 4, pp. 794821, July - August 2016
- (J26) H. Wang[†], J. Huang*, X. Lin, and A.H. Mohsenian-Rad, "Proactive Demand Response for Data Centers: A Win-Win Solution," *IEEE Transactions on Smart Grid*, vol. 7, no. 3, pp. 1584-1596, May 2016
- (J27) L. Duan[†], B. Shou*, and J. Huang, "Capacity Allocation and Pricing Strategies for New Wireless Services," *Production and Operations Management*, vol. 25, no. 5, pp. 866 - 882, May 2016
- (J28) H. Yu[†], M. Cheung[†], L. Huang, and J. Huang*, "Power-Delay Tradeoff with Predictive Scheduling in Integrated Cellular and Wi-Fi Networks", *IEEE Journal on Selected Areas in Communications*, vol. 34, no. 4, pp. 735 - 742, April 2016
- (J29) Y. Luo[†], L. Gao[†], and J. Huang*, "MINE GOLD to Deliver Green Communication in Cognitive Communications," *IEEE Journal on Selected Areas in Communications*, vol. 33, no. 12, pp. 2749-2740, December 2015
- (J30) Y. Chen[†], L. Duan, J. Huang, and Q. Zhang*, "Balancing Income and User Utility in Spectrum Allocation," *IEEE Transactions on Mobile Computing*, vol. 14, no. 12, pp. 2466-2473, December 2015
- (J31) G. Iosifidis[†], L. Gao[†], J. Huang*, and L. Tassiulas, "A Double Auction Mechanism for Mobile Data Offloading Markets," *IEEE/ACM Transactions on Networking*, vol. 25, no. 5, pp. 1634 - 1647, October 2015
- (J32) Y. Luo[†], L. Gao[†], and J. Huang*, "Spectrum Reservation Contract Design in TV White Space Networks" (invited paper for the inaugural issues), *IEEE Transactions on Cognitive Communications and Networking*, vol. 1, no. 2, pp. 147-160, June 2015
- (J33) M. Cheung[†] and J. Huang*, "DAWN: Delay-Aware Wi-Fi Offloading and Network Selection," *IEEE Journal on Selected Areas in Communications*, vol. 33, no. 6, pp. 1214 - 1223, June 2015
- (J34) X. Chen[†] and J. Huang*, "Imitation-based Social Spectrum Sharing," *IEEE Transactions on Mobile Computing*, vol. 14, no. 6, pp. 1189 - 1202, June 2015
- (J35) Y. Luo[†], L. Gao[†], and J. Huang*, "Business Modeling for TV White Space Networks," *IEEE Communications Magazine*, vol. 53, no. 5, pp. 82- 88, May 2015
- (J36) L. Duan[†], J. Huang*, and B. Shou, "Pricing for Local and Global Wi-Fi Markets," *IEEE Transactions on Mobile Computing*, vol. 14, no. 5, pp. 1056 - 1070, May 2015
- (J37) Y. Luo[†], L. Gao[†], and J. Huang*, "Price and Inventory Competition in Oligopoly TV White Space Markets," *IEEE Journal on Selected Areas in Communications*, vol. 33, no. 5, pp. 1002-1013, May 2015
- (J38) L. Duan[†], J. Huang*, and J. Walrand, "Economic Analysis of 4G Upgrade Timing," *IEEE Transactions on Mobile Computing*, vol. 14, no. 5, pp. 975 - 989, May 2015
- (J39) X. Chen[†] and J. Huang*, "Spatial Spectrum Access Game," *IEEE Transactions on Mobile Computing*, vol. 14, no. 3, pp. 646 - 659, March 2015
- (J40) B. Ma[†], M. Cheung[†], V. Wong*, and J. Huang, "Hybrid Overlay/Underlay Cognitive Femtocell Networks: A Game Theoretic Approach," *IEEE Transactions on Wireless Communications*, vol. 14, no. 6, pp. 3259 - 3270, February 2015

- (J41) Y. Wu*, Q. Zhu[†], J. Huang, and H.-K. Tsang, "Revenue Sharing Based Resource Allocation for Dynamic Spectrum Access Networks," *IEEE Journal on Selected Areas in Communications*, vol. 32, no. 11, pp. 2280 - 2296, November 2014
- (J42) L. Duan[†], T. Kubo, K. Sugiyama, J. Huang*, T. Hasegawa, and J. Walrand, "Motivating Smartphone Collaboration in Data Acquisition and Distributed Computing," *IEEE Transactions on Mobile Computing*, vol. 13, no. 10, pp. 2320 - 2333, October 2014
- (J43) G. Iosifidis[†], L. Gao[†], J. Huang*, and L. Tassiulas, "Incentive Mechanisms for User-Provided Networks," *IEEE Communications Magazine*, vol. 52, no. 9, pp. 20-27, August 2014
- (J44) A.H. Mohsenian-Rad*, J. Huang, V.W.S. Wong, and R. Schober, "Repeated InterSession Network Coding Games: Efficiency and Min-Max Bargaining Solution," *IEEE/ACM Transactions on Networking*, vol. 22, no. 4, pp. 1121 - 1135, August 2014
- (J45) L. Gao[†], G. Iosifidis[†], J. Huang*, L. Tassiulas, and D. Li, "Bargaining-based Mobile Data Offloading," *IEEE Journal on Selected Areas in Communications*, vol. 32, no. 6, pp. 1114 - 1125, June 2014
- (J46) S. Li[†] and J. Huang*, "Price Differentiation for Communication Networks," *IEEE/ACM Transactions on Networking*, vol. 22, no. 3, pp. 703 - 716, June 2014
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- [C66] R. Southwell[†], J. Huang, and X. Liu, "Spectrum Mobility Games," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate: 18%), Orlando, FL, USA, March 2012
- [C67] L. Duan[†], T. Kubo, K. Sugiyama, J. Huang, T. Hasegawa, and J. Walrand, "Incentive Mechanisms for Smartphone Collaboration in Data Acquisition and Distributed Computing," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate: 18%), Orlando, FL, USA, March 2012
- [C68] S. Gong[†], P. Wang, and J. Huang, "Robust Threshold Design for Cooperative Sensing in Cognitive Radio Networks," *IEEE International Conference on Computer Communications (INFOCOM) Mini-Conference*, Orlando, FL, USA, March 2012
- [C69] L. Fu[†], Y. Zhang, and J. Huang, "Energy Efficient Transmissions in MIMO Cognitive Radio Networks," *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, USA, March 2012
- [C70] L. Gao[†], J. Huang, Y.J. Chen, and B. Shou, "ContrAuction: An Integrated Design of Contract and Auction for Dynamic Spectrum Sharing," *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, USA, March 2012
- [C71] C. Wu[†], A.H. Mohsenian-Rad, J. Huang, and J. Jatskevich, "PEV-Based Combined Frequency and Voltage Regulation for Smart Grid," *IEEE PES Innovative Smart Grid Technologies Conference*, Washington, D.C., USA, January 2012
- [C72] C. Wu[†], A.H. Mohsenian-Rad, and J. Huang, "Wind Power Integration via Aggregator-Consumer Coordination: A Game Theoretic Approach," *IEEE PES Innovative Smart Grid Technologies Conference*, Washington, D.C., USA, January 2012
- [C73] C. Wu[†], A.H. Mohsenian-Rad, J. Huang, and Y. Wang, "Demand Side Management for Wind Power Integration in Microgrid Using Dynamic Potential Game Theory," *IEEE Global Communications Conference (GLOBECOM) Workshop on Smart Grid Communications and Networks*, Houston, USA, December 2011
- [C74] X. Chen[†] and J. Huang, "Evolutionarily Stable Open Spectrum Access in a Many-Users Regime," *IEEE Global Communications Conference (GLOBECOM)*, Houston, USA, December 2011
- [C75] Y. Yan[†], J. Huang, X. Zhong, M. Zhao, and J. Wang, "Sequential Bargaining in Cooperative Spectrum Sharing: Incomplete Information with Reputation Effect," *IEEE Global Communications Conference (GLOBECOM)*, Houston, USA, December 2011
- [C76] Y. Liu[†], M. Tao, and J. Huang, "Auction-Based Optimal Power Allocation in Multiuser Cooperative Networks," *IEEE Global Communications Conference (GLOBECOM)*, Houston, USA, December 2011
- [C77] L. Law[†], J. Huang, and M. Liu, "Price of Anarchy of Congestion Games with Player-Specific Constants" (invited), *International Conference on Wireless Communications and Signal Processing (WCSP)*, Nanjing, China, November 2011
- [C78] Y. Yan[†], J. Huang, and J. Wang, "Dynamic Bayesian Spectrum Bargaining with Non-Myopic Users," *International Conference on Wireless Internet (WiCON) (Best Paper Award)*, Xi'An, China, October 2011
- [C79] Y. Yuan[†], H. Zheng[†], Z. Li, J. Huang, and J. Cao, "Utility-Driven Distributed Transmission Coordination For Video Communications Over Ad Hoc Wireless Network," *IEEE International Conference on Multimedia & Expo (ICME)*, Barcelona, Spain, July 2011
- [C80] K. Leung[†] and J. Huang, "Regulating Wireless Access Pricing," *IEEE International Conference on Communications (ICC)*, Kyoto, Japan, June 2011
- [C81] M. Cheung[†], F. Hou[†], V. Wong, and J. Huang, "Dynamic Optimal Random Access for Vehicle-to-Roadside Communications," *IEEE International Conference on Communications (ICC)*, Kyoto, Japan, June 2011
- [C82] X. Chen[†], J. Huang, and H. Li, "Adaptive Channel Recommendation for Dynamic Spectrum Access," *IEEE Dynamic Spectrum Access Networks (DySPAN)*, Aachen, Germany, May 2011
- [C83] L. Duan[†], L. Gao[†], and J. Huang, "Contract-based Cooperative Spectrum Sharing," *IEEE Dynamic Spectrum Access Networks (DySPAN)*, Aachen, Germany, May 2011
- [C84] R. Southwell[†] and J. Huang, "Convergence Dynamics of Resource-Homogeneous Congestion Games," *International Conference on Game Theory for Networks (GameNets) (Best Paper Award Finalist)*, Shanghai, China, April 2011

- [C85] Y. Yan[†], J. Huang, X. Zhong, and J. Wang, "Dynamic Spectrum Negotiation with Asymmetric Information," *International Conference on Game Theory for Networks (GameNets)*, Shanghai, China, April 2011
- [C86] G. Feng[†], J. Huang, and D.M. Chiu, "Bargaining and Peering between Network Content/Coverage Providers" (invited), *International Conference on Game Theory for Networks (GameNets)*, Shanghai, China, April 2011
- [C87] L. Duan[†] and J. Huang, "Economic Viability of Femtocell Service Provision" (invited), *International Conference on Game Theory for Networks (GameNets)*, Shanghai, China, April 2011
- [C88] F. Hou[†] and J. Huang, "Dynamic Channel Selection in Cognitive Radio Network with Channel Heterogeneity," *IEEE Global Communications Conference (GLOBECOM) (Best Paper Award)*, Miami, USA, December 2010
- [C89] F. Wang[†], J. Zhu[†], J. Huang, and Y. Zhao, "Admission Control and Channel Allocation for Supporting Real-time Applications in Cognitive Radio Networks," *IEEE Global Communications Conference (GLOBECOM)*, Miami, USA, December 2010
- [C90] L. Fu[†], H. Kim[†], J. Huang, S. Liew, and M. Chiang, "Energy Conservation and Interference Mitigation: From Decoupling Property to Win-Win Strategy," *IEEE Conference on Decision and Control (CDC)*, Atlanta, Georgia, USA, December 2011
- [C91] J. Zhu[†], J. Huang, and W. Zhang, "Optimal One-Dimensional Relay Placement in Cognitive Radio Networks" (invited), *International Conference on Wireless Communications and Signal Processing (WCSP)*, Suzhou, China, October 2010
- [C92] J. Huang, "Game Theoretical Analysis of Cognitive Radio Networks: An NCEL Perspective" (invited), *International Workshop on Cognitive Information Processing (CIP)*, Elba Island, Italy, June 2010
- [C93] L. Duan[†], J. Huang, and B. Shou, "Competition with Dynamic Spectrum Leasing," *IEEE Dynamic Spectrum Access Networks (DySPAN)*, Singapore, April, 2010
- [C94] L. Duan[†], J. Huang, and B. Shou, "Cognitive Mobile Virtual Network Operator: Investment and Pricing with Supply Uncertainty," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate: 17.5%), San Diego, CA, USA, March 2010
- [C95] A.H. Mohsenian-Rad[†], J. Huang, V.W.S. Wong, and R. Schober,, "Bargaining and Price-of-Anarchy in Repeated Inter-Session Network Coding Games," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate: 17.5%), San Diego, CA, USA, March 2010
- [C96] L. Fu[†], S. Liew, and J. Huang, "Effective Carrier Sensing in CSMA Networks under Cumulative Interference," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate: 17.5%), San Diego, CA, USA, March 2010
- [C97] X. Zhang[†], L. Chen[†], J. Huang, M. Chen, and Y. Zhao, "Distributed and Optimal Reduced Primal-Dual Algorithm for Uplink OFDM Resource Allocation" (invited), *IEEE Conference on Decision and Control (CDC)*, Shanghai, China, December 2009
- [C98] J. Huang, "Distributed Algorithm Design for Network Optimization Problems with Coupled Objectives" (invited), *IEEE TENCON*, Singapore, November 2009
- [C99] S. Li[†], J. Huang, and S. Li, "Revenue Maximization for Communication Networks with Usage-Based Pricing," *IEEE Global Communications Conference (GLOBECOM)*, Hawaii, USA, November 2009
- [C100] L. Law[†], J. Huang, M. Liu, and S. Li, "Price of Anarchy for Cognitive MAC Games", *IEEE Global Communications Conference (GLOBECOM)*, Hawaii, USA, November 2009
- [C101] W. Dang[†], M. Tao, H. Mu[†], and J. Huang, "Subcarrier-Pair Based Resource Allocation for Cooperative AF Multi-Relay OFDM Systems," *IEEE Global Communications Conference (GLOBECOM)*, Hawaii, USA, November 2009
- [C102] J. Huang and X. Huang, "Revenue Management for Cognitive Spectrum Underlay Networks: An Interference Elasticity Perspective," *The 15th Asia-Pacific Conference on Communications (Best Paper Award)*, Shanghai, China, October 2009
- [C103] V. Gajic[†], J. Huang, and B. Rimoldi, "Competition of Wireless Providers for Atomic Users: Equilibrium and Social Optimality," *Allerton Conference on Communication, Control and Computing*, Monticello, IL, USA, September 2009

- [C104] A.H. Mohsenian-Rad[†], J. Huang, V.W.S. Wong, S. Jaggi, and R. Schober, "A Game-Theoretic Analysis of Inter-Session Network Coding," *IEEE International Conference on Communications (ICC)*, Dresden, Germany, June 2009
- [C105] L. Fu[†], S. Liew, and J. Huang, "Power Controlled Scheduling with Consecutive Transmission Constraints: Complexity Analysis and Algorithm Design," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate: 19.7%), Rio de Janeiro, Brazil, April 2009
- [C106] A.H. Mohsenian-Rad[†], J. Huang, M. Chiang, and V.W.S. Wong, "Simple, Robust, and Optimal Random Access," *IEEE MILCOM*, San Diego, CA, USA, November 2008
- [C107] Y. Cheung[†], D.M. Chiu, and J. Huang, "Can Bilateral ISP Peering Lead to Network-wide Cooperative Settlement," *IEEE International Conference on Computer Communication Networks (ICCCN)*, St. Thomas U.S. Virgin Islands, USA, August 2008
- [C108] X. Ji[†], J. Huang, M. Chiang, and F. Catthoor, "Downlink OFDM Scheduling and Resource Allocation for Delay Constraint SVC Streaming," *IEEE International Conference on Communications (ICC)*, Beijing, China, May 2008
- [C109] L. Fu[†], S. Liew, and J. Huang, "Joint Power Control and Link Scheduling in Wireless Networks for Throughput Optimization," *IEEE International Conference on Communications (ICC)*, Beijing, China, May 2008
- [C110] K. Yang[†], Y. Wu[†], J. Huang, X. Wang, and S. Verdu, "Distributed Robust Optimization for Communication Networks," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate: 20.3%), Phoenix, AZ, USA, April 2008
- [C111] J. Huang, Z. Han, H.V. Poor, and M. Chiang, "Auction-based Resource Allocation for Multi-relay Asynchronous Cooperative Networks," *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Las Vegas, Nevada, USA, April 2008
- [C112] F. Li[†], J. Huang, and A. Lippman, "A Linear Integer Programming Approach to Analyze P2P Media Streaming," *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, USA, March 2008
- [C113] M. Chen and J. Huang, "Optimal Resource Allocation for OFDM Uplink Communication: A Primal-Dual Approach" (invited), *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, USA, March 2008
- [C114] J. Huang, V. Subramanian, R. Agrawal, and R. Berry, "Joint Scheduling and Resource Allocation for Uplink OFDM Systems," *Asilomar Conference on Signals, Systems and Computers*, Pacific Grove, CA, USA, November 2007
- [C115] J. Huang, Z. Han, H.V. Poor, and M. Chiang, "Auction-Based Distributed Resource Allocation for Cooperation Transmission in Wireless Networks," *IEEE Global Communications Conference (GLOBECOM)*, Washington D. C., USA, November 2007
- [C116] J. Dwoskin[†], D. Xu, J. Huang, M. Chiang, and R. Lee, "Secure Key Management Architecture Against Sensor-node Fabrication Attacks," *IEEE Global Communications Conference (GLOBECOM)*, Washington D.C., USA, November 2007
- [C117] J. Huang, C.W. Tan[†], M. Chiang, and R. Cendrillon, "Statistical Multiplexing over DSL Networks," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate: 18%), Anchorage, AK, USA, May 2007
- [C118] M. Chiang, J. Huang, D. Xu, Y. Yi, C.W. Tan[†], and R. Cendrillon, "FAST Copper For Broadband Access: An Overview," *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Honolulu, Hawaii, USA, April 2007
- [C119] R. Agrawal, R. Berry, J. Huang, and V. Subramanian, "Optimal Scheduling for OFDMA Systems," *Asilomar Conference on Signals, Systems and Computers*, Pacific Grove, CA, USA, October 2006 (Contribution: 30%, online version at http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4176786)
- [C120] M. Chiang, J. Huang, D. Xu, Y. Yi, C.W. Tan[†], and R. Cendrillon, "FAST Copper For Broadband Access" (invited), *Allerton Conference on Communication, Control and Computing*, Monticello, IL, USA, September 2006
- [C121] M. Chiang, J. Huang, R. Cendrillon, C.W. Tan[†], and D. Xu, "FAST Copper For Broadband Access," *SPIE Broadband Access Communication Technologies Conference*, Boston, MA, USA, October 2006

- [C122] J. Huang, R. Cendrillon, M. Chiang, and M. Moonen, "Autonomous Spectrum Balancing (ASB) for Frequency Selective Interference Channels," *IEEE International Symposium on Information Theory (ISIT)*, Seattle, WA, USA, July 2006
- [C123] Z. Li, J. Huang, and A. K. Katsaggelos, "Pricing Based Collaborative Multi-User Video Streaming Over Power Constrained Wireless Downlink," *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Toulouse, France, May 2006
- [C124] J. Huang, Z. Li, M. Chiang, and A. K. Katsaggelos, "Joint Rate Control and Scheduling for Wireless Uplink Video Streaming," *IEEE International Packet Video Workshop*, Hangzhou, China, April 2006
- [C125] A. Tang[†], J.-W. Lee[†], J. Huang, M. Chiang, and A. R. Calderbank, "Reverse Engineering MAC," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Boston, MA, USA, April 2006
- [C126] J. Huang, V. Subramanian, R. Agrawal, and R. Berry, "Downlink Scheduling and Resource Allocation for OFDM Systems" (invited), *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, USA, March 2006
- [C127] J. Huang, R. Berry, and M. L. Honig, "Spectrum Sharing with Distributed Interference Compensation," *IEEE Dynamic Spectrum Access Networks (DySPAN)*, Baltimore, MD, USA, November 2005
- [C128] J. Huang, R. Berry, and M. L. Honig, "Performance of Distributed Utility-based Power Control for Wireless Ad Hoc Networks," *IEEE MILCOM*, Atlantic City, NJ, USA, October 2005
- [C129] J. Huang, R. Berry, and M. L. Honig, "A Game Theoretic Analysis of Distributed Power Control for Spread Spectrum Ad Hoc Networks," *IEEE International Symposium on Information Theory (ISIT)*, Adelaide, Australia, September 2005
- [C130] J. Huang, R. Berry, and M. L. Honig, "Distributed Interference Compensation for Multi-Channel Wireless Networks," *Allerton Conference on Communication, Control and Computing*, Monticello, IL, USA, September 2005
- [C131] J. Huang, R. Berry, and M. L. Honig, "Auction Mechanisms for Distributed Spectrum Sharing," *Allerton Conference on Communication, Control and Computing*, Monticello, IL, USA, October 2004
- [C132] J. Huang, R. Berry, and M. L. Honig, "Auction-based Spectrum Sharing," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Cambridge, UK, March 2004
- [C133] J. Huang, R. Berry, and M. L. Honig, "Wireless Scheduling with Hybrid ARQ," *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, USA, March 2004

PATENT

- V. Subramanian, R. Agrawal, R. Berry, and J. Huang, "Method and System for Allocating Subcarriers to Subscriber Devices," US patent No. 7586990, September 2009

INDUSTRY COLLABORATION

- Alcatel-Lucent Bell Labs (USA): Distributed robust network optimization
- AT&T Labs (USA): Network key management
- Samsung (USA): Wireless video streaming
- Nokia Siemens Networks (USA): Resource allocation in OFDM systems
- Orange/France Telecom (France): Cellular network pricing
- Microsoft Research Asia (China): Spectrum mobility games
- Ericsson (China): Wireless video streaming
- Huawei (China): Spectrum management of DSL networks
- China Mobile (China): 3G network billing system

- Asiainfo-Linkage Technologies (China): 3G network billing system

STUDENT SUPERVISION

• Graduated PhD students

1. Liqun Fu: thesis title "Scheduling in Wireless Networks with Physical Interference Constraints" (co-supervision with Prof. Soung Chang Liew), Ph.D. defense 07/2010, currently a Full Professor at Xiamen University (China), received **Chinese Thousand Talents Plan Award for Young Professionals 2015**
2. Lingjie Duan: thesis title "Some Economics of Cellular and Cognitive Radio Networks," PhD defense 06/2012, currently a tenure-track Assistant Professor at Singapore University of Technology and Design (Singapore), received **Hong Kong Young Scientist Award Finalist 2014** and **IEEE Communications Society Asia-Pacific Outstanding Young Researcher Award 2015**
3. Xu Chen: thesis title "Distributed Spectrum Sharing: A Social and Game Theoretical Approach," PhD defense 06/2012, currently a Full Professor in Sun Yat-Sen University (Guangzhou, China), received **Hong Kong Young Scientist Award Runner-Up 2014** and **Chinese Thousand Talents Plan Award for Young Professionals 2016**
4. Shuqing Li: thesis title "Revenue Maximization for Communication Networks" (co-supervision with Prof. Shuo-Yen Robert Li), PhD defense 07/2012, first job as a Research Scientist at Bell Labs (Shanghai)
5. Lok Man Law: thesis title "Game Theoretical Analysis of Congested Wireless Networks" (co-supervision with Prof. Shuo-Yen Robert Li), PhD defense 03/2013, first job as an Engineer at SmarTone Vodafone (Hong Kong)
6. Yuan Luo: thesis title "Economics of White Space Network," PhD defense 08/2015, currently a Research Fellow at Imperial College London, received the **Hong Kong PhD Fellowship**, **CUHK Young Scholar Thesis Award 2015**, **CUHK Postgraduate Research Output Award 2015**, and **IEEE WiOpt 2014 Best Paper Award**
7. Hao Wang: thesis topic "Economic Mechanisms for Integrating Smart Grid Technologies into Power System," PhD defense 05/2016, currently a Postdoc at University of Washington
8. Haoran Yu: thesis topic "Optimization and Economic Analysis of Wi-Fi Networks", PhD defense 08/2016, currently a Postdoc at The Chinese University of Hong Kong
9. Qian Ma: thesis topic "Incentive Mechanism Design for Networked Markets", PhD defense 02/2017, currently a Postdoc at The Chinese University of Hong Kong, received the **IEEE WiOpt 2015 Best Student Paper Award**

• Graduated MPhil students

1. Guoseng Feng: thesis title "Bargaining and Peering between Network Content/Coverage Providers" (co-supervision with Prof. Dah Ming Chiu), MPhil defense in 07/2010, first job at China Construction Bank (Hong Kong)
2. Kwan Fong Leung: thesis title "Wireless Access Pricing," MPhil defense in 07/2011, first job at J.P. Morgan (Hong Kong)
3. Leung Kam Wong: thesis title "Large Deviation Analysis of Wireless P2P Systems," MPhil defense in 11/2011, first job at Microsoft (Hong Kong)

• Current PhD Students

1. Changkun Jiang: thesis topic "Dynamic Pricing for Network Resource Allocation", starting 08/2012
2. Junlin Yu: thesis topic "Behavior Economics of Wireless Networks", starting 08/2012
3. Ming Tang: thesis topic "Incentive Mechanism Design for User Provided Networks", **Hong Kong PhD Fellow**, starting 08/2014
4. Dongwei Zhao: thesis topic "Economic Mechanism Design for Smart Grid Storage Systems", starting 08/2015

5. Meng Zhang: thesis topic “Network Sharing Economy”, starting 08/2015
6. Zhiyuan Wang: thesis topic TBD, **Hong Kong PhD Fellow**, starting 08/2016
7. Guocheng Liao: thesis topic TBD, starting 08/2016

● **Post-doctoral Researchers**

1. Dr. Yanru Zhang, Ph.D. from University of Houston (USA), postdoc at CUHK since 03/2017
2. Dr. Man Hon Cheung: Ph.D. from University of British Columbia (Canada), postdoc at CUHK (jointly with University of Macau) since 08/2012
3. Dr. Lin Gao: Ph.D. from Shanghai Jiaotong University (China), postdoc at CUHK 09/2010 – 08/2015, currently Associate Professor at Harbin Institute of Technology (Shenzhen)
4. Dr. Richard Southwell: Ph.D. from Sheffield University (UK), postdoc at CUHK 09/2010 – 12/2014, currently Postdoc at York University
5. Dr. Quansheng Guan: Ph.D. from South China University of Technology, postdoc at CUHK during 02/2012 – 02/2013, currently Associate Professor at South China University of Technology (China)
6. Dr. Fen Hou: Ph.D. from University of Waterloo (Canada), postdoc at CUHK during 08/2009 – 03/2011, currently tenure-track Assistant Professor at University of Macau
7. Dr. Junhua Zhu: Ph.D. from Hong Kong University of Science and Technology, postdoc at CUHK during 03/2009 – 12/2009, currently senior researcher at Huawei (China)

● **Visiting Students**

1. Qinghua Ding, Undergraduate student from Tsinghua University (China), 01/2017 – 05/2017
2. Haitian Pang, PhD student from Tsinghua University (China), 07/2016
3. Shahab Bahrami, PhD student from University of British Columbia (Canada), 06/2016
4. Zhiwen Hu, PhD student from Peking University (China), 07/2015 – 08/2015
5. Mohammad Mahdi Khalili, Master student from Sharif University of Technology (Iran), 07/2014 – 10/2014
6. Zijie Zheng, Undergraduate student from Peking University (China), 07/2014 – 08/2014
7. Xinzheng Zhu, Master student from Shanghai Jiatong University (China), 07/2013 – 08/2013
8. Fariborz Salehi, Undergraduate student from Sharif University of Technology (Iran), 07/2013 – 09/2013
9. Sarah Shahi, Undergraduate student from Amirkabir University of Technology (Iran), 07/2012 – 09/2012
10. George Iosifidis, PhD student from University of Thessaly (Greece), 10/2011 – 12/2011
11. Chenye Wu, PhD student from Tsinghua University (China), visited during 10/2011, 07/2010 – 08/2010
12. Man Hong Cheung, PhD student from University of British Columbia (Canada), 08/2009 – 09/2009
13. Feng Wang, PhD student from Peking University (China), 07/2009 - 12/2009
14. Soham Mehta, Undergraduate Student from IIT, Bombay (India), 05/2009 - 07/2009
15. Vojislav Gajic, PhD student from Ecole Polytechnique Federale de Lausanne (Switzerland), 06/2008 – 09/2008, 09/2009 – 11/2009
16. Peng Wang, PhD student from Tsinghua University (China), 06/2008 - 08/2008
17. Xiaoxin Zhang, PhD student from Peking University (China), 06/2008 - 08/2008
18. Pengliang Cheng, Master student from Shanghai Jiaotong University (China), 06/2008 - 08/2008

CLASSROOM TEACHING

Table 2 lists all courses that I taught at CUHK with student teaching evaluations.

- The teaching evaluation is on the scale of 1 – 6, with the highest (best) being 6.

- Mean is the average value among top 90% evaluations for a course, which is used for tenure evaluation and promotion at CUHK.
- Department Mean is computed separately for undergraduate, graduate, and general education courses, except the year of 2008/2009 where only one department average of all courses was available.

Table 2: Summary of Course Evaluations

Year	Term	Course	Title (<u>U</u> ndergraduate/ <u>G</u> raduate)	Class Size	Mean (Dept. Mean)
2016/2017	1	IERG5330	Network Economics (G)	18	6.00 (5.95)
2016/2017	1	GECC4130	Chung Chi Senior Seminar (U)	24	5.67 (5.18)
2015/2016	2	ESTR3302	Networks: Tech., Econ. & Social Inter. (U)	12	6.00 (5.40)
2015/2016	2	IERG3280	Networks: Tech., Econ. & Social Inter. (U)	63	5.58 (5.40)
2014/2015	2	IERG3280	Networks: Tech., Econ. & Social Inter. (U)	67	5.61 (5.09)
2014/2015	1	IERG5330	Network Economics (G)	25	6.00 (5.90)
2013/2014	2	IERG3280	Networks: Tech., Econ. & Social Inter. (U)	70	5.70 (5.19)
2013/2014	1	IERG5330	Network Economics (G)	21	5.87 (5.67)
2013/2014	1	GECC4130	Chung Chi Senior Seminar (U)	24	5.84 (5.09)
2012/2013	2	ENGG1410C	Engineering Mathematics I (U)	122	5.10 (4.84)
2012/2013	1	IERG3280	Networks: Tech., Econ. & Social Inter. (U)	35	5.40 (4.84)
2012/2009	1	GECC4130	Chung Chi Senior Seminar (U)	28	5.76 (4.99)
2011/2012	2	ERG2012B	Advanced Engineering Math (U)	63	5.50 (4.99)
2011/2012	2	ERG2012A	Advanced Engineering Math (U)	54	5.20 (4.99)
2010/2011	2	IERG6280	Network Economics (G)	13	6.00 (5.00)
2010/2011	2	IERG3050	Simulation & Statistical Analysis (U)	19	5.90 (5.00)
2009/2010	2	ERG2012A	Advanced Engineering Math (U)	24	5.40 (4.90)
2009/2010	2	ERG2012B	Advanced Engineering Math (U)	57	5.10 (4.90)
2008/2009	2	IEG5120	Advanced Topics in Information Eng. (G)	18	5.79 (4.82)
2008/2009	2	ERG2012B	Advanced Engineering Math (U)	60	4.67 (4.82)
2008/2009	1	GEC0413	Chung Chi Senior Seminar (U)	28	5.00 (4.82)
2007/2008	2	IERG3050	Simulation & Statistical Analysis (U)	11	5.38 (4.81)
2007/2008	1	ERG2013B	Advanced Engineering Math (U)	63	4.61 (4.79)

HALF-DAY TUTORIALS

- Fog Computing and Networking: A New Paradigm for 5G and IoT Applications
 - IEEE ICC, Paris, France, 21/05/2017
- User-Provided Networks: <http://jianwei.ie.cuhk.edu.hk/Files/UPN-Tutorial.pdf>
 - IEEE GLOBECOM, San Diego, CA, USA, 06/12/2015
- Economics of TV White Space Networks: <http://jianwei.ie.cuhk.edu.hk/Files/TV-Tutorial.pdf>
 - IEEE DySPAN, Baltimore, USA, 03/06/2017
 - IEEE ICC, Shenzhen, China, 02/11/2015
- Mobile Data Offloading: <http://jianwei.ie.cuhk.edu.hk/Files/MDO-Tutorial.pdf>
 - IEEE ICC, London, UK, 12/06/2015
 - IEEE ICC, Sydney, Australia, 10/06/2014

- Wireless Network Economics and Games:
<http://jianwei.ie.cuhk.edu.hk/Files/WNEG-Tutorial.pdf>
 - The China Computer Federation Advanced Disciplines Lectures on *New Exploration of Internet of Things*, Shanghai Jiaotong University, Shanghai, China, 20/09/2014
 - IEEE Summer School on *Internet of Things and Machine-to-Machine Systems*, National University of Taiwan, Taiwan, 26/08/2014
 - IEEE GLOBECOM, Atlanta, USA, 13/12/2013
- How Do We Play Games? (a short course on game theory):
 - CUHK iTunesU:
<https://itunes.apple.com/hk/course/how-do-we-play-games/id642100914>
 - YouKu: http://www.youku.com/playlist_show/id_19119535.html
 - NetEase Public Course: <http://open.163.com/special/opencourse/mysteryofgame.html>

KEYNOTE PRESENTATIONS

- “Communications Network Economics,” 2016 Shannon Workshop, Shanghai Jiaotong University, 14/12/2016
- “Incentive Mechanisms for User-Provided Networks,” International Conference on Networking and Network Applications, Hakodate City, Hokkaido, Japan, 24/07/2016 (*IEEE ComSoc Distinguished Lecture*)
- “Crowdsourced Mobile Video Streaming,” International Symposium on Network Economics and Big Data, Beijing, China, 09/07/2016
- “Enabling Crowd-Sourced Mobile Internet Access,” Workshop on National 973 Project of Energy and Resource Optimized Next-Generation Hyper-Cellular Networks, Shanghai, China, 16/10/2014
- “Incentive Mechanisms for User-Provided Networks,” National Doctoral Forum on Information Science, Sun Yat-Sen University, Guangzhou, China, 22/08/2014

INVITED PRESENTATIONS/ LECTURES

- “Network Economics of Fog Networking”
 - OpenFog Greater China Region Opening Ceremony, Shanghai Tech University, Shanghai, China, 24/04/2017
- “Economics of Wi-Fi Networks”
 - Department of Computer Science, University of Paris-Sud, Paris, France, 21/05/2017
 - School of Information Science and Engineering, Southeast University, Nanjing, China, 21/04/2017
- “Communications Network Economics”
 - Huawei Research, Paris, Huawei, 23/05/2017
 - School of Computer Science and Statistics, Trinity College Dublin, Ireland, 12/05/2017
 - IEEE ComSoc Seattle Chapter, Seattle, WA, 09/05/2017
 - IEEE ComSoc Atlanta Chapter, Atlanta, GA, 03/05/2017
 - Department of Electrical & Computer Engineering and Institute for Systems, University of Maryland, USA, 07/03/2017

- “Crowdsourced Mobile Video Streaming”
 - Department of Information Technology and Software Engineering, Auckland University of Technology, New Zealand, 30/06/2016
 - School of Information Science and Technology, ShanghaiTech University, Shanghai, China, 13/06/2016
 - National Key Laboratory of Science and Technology of Communications, University of Electronic Science and Technology of China, Chengdu, China, 06/06/2016
 - School of Information Science and Engineering, Southeast University, Nanjing, China, 03/06/2016
 - Department of Automatic Control, Shanghai Jiaotong University, Shanghai, China, 31/05/2016
 - School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China, 24/05/2016
 - School of Data and Computer Science, Sun Yat-Sen University, Guangzhou, China, 23/05/2016
 - Claude Shannon Centenary Workshop, The Chinese University of Hong Kong, Hong Kong, 19/05/2016
 - Mobihoc TPC Workshop, Rice University, Houston, Texas, USA, 20/03/2016
- “Incentive Mechanisms for User-Provided Networks”
 - Osaka Institute of Technology, Japan, 27/07/2016 (*IEEE ComSoc Distinguished Lecture*)
 - University of Tsukuba, Japan, 22/07/2016 (*IEEE ComSoc Distinguished Lecture*)
 - Department of Electrical and Computer Engineering, University of Houston, Houston, Texas, USA, 21/03/2016
 - Department of Electronic Engineering and Information Science, University of Science and Technology of China, Hefei, China, 23/10/2015
 - Department of Automatic Control, Shanghai Jiaotong University, Shanghai, China, 21/10/2015
 - Asia-US Forum on Fog Networking for 5G and IoT, Taipei, Taiwan, 15/09/2015
 - Center of Mathematical Science, Cambridge University, Cambridge, UK, 08/06/2015 (*IEEE ComSoc Distinguished Lecture*)
 - Academia Sinica, Taipei, Taiwan, 09/04/2015
 - School of Information Science and Engineering, Southeast University, Nanjing, China, 17/10/2014
 - Jiangsu Provincial Collaborative Innovation Center on Satellite Communications, Nanjing, China, 17/10/2014
 - IEEE International Conference on Communications China (ICCC), Shanghai, China, 15/10/2014
 - Department of Electrical Engineering, National Tsing Hua University, Taiwan, 27/08/2014
- “Mobile Data Offloading”
 - Department of Electrical and Electronic Engineering and Computing, Imperial College, London, UK, 04/06/2015 (*IEEE ComSoc Distinguished Lecture*)
 - Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Barcelona, Spain, 02/06/2015 (*IEEE ComSoc Distinguished Lecture*)
 - Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, Hong Kong, 26/02/2015
 - School of Information Science and Technology, ShanghaiTech University, Shanghai, China, 13/10/2014
 - Department of Communication Engineering, National Chiao Tung University, Taiwan, 27/08/2014
 - Department of Electrical Engineering, National University of Taiwan, Taiwan, 25/08/2014
 - Brainstorming Workshop on 5G Wireless, Hong Kong, 02/04/2014
 - Qualcomm, Bridgewater, NJ, USA, 19/03/2014
 - Department of Electrical Engineering, Princeton University, Princeton, NJ, USA, 18/03/2014

- Orange Labs Research, France Telecom, France, 31/07/2013
- Wireless Communications and Economics Workshop, The Chinese University of Hong Kong, Hong Kong, 21/06/2013
- “Joint Investment and Operation of Microgrid with Renewable Energy Integration”
 - Department of Electrical Engineering, California Institute of Technology, Pasadena, CA, USA, 12/04/2015
- “Graphical Congestion Games”
 - Department of Electrical and Computer Engineering, Illinois Institute of Technology, Chicago, IL, USA, 17/12/2013
 - Department of Electrical Engineering and Computer Science, Northwestern University, Evanston, IL, USA, 16/12/2013
 - School of Electronic Science and Engineering, Nanjing University, Nanjing, China, 21/12/2012
 - Nanjing University of Posts and Telecommunications, Nanjing, China, 21/12/2012
 - School of Information Science and Engineering, Southeast University, Nanjing, China, 19/12/2012
 - Department of Electrical Engineering, University of Southern California, Los Angeles, CA, USA, 07/12/2012
 - School of Computer Engineering, Nanyang Technological University, Singapore, 21/11/2012
 - Department of Electrical Engineering, National University of Singapore, Singapore, 23/11/2012
 - Pillar of Engineering System & Design, Singapore University of Technology & Design, Singapore, 23/11/2012
 - School of Electrical Engineering, KTH, Stockholm, Sweden, 29/08/2012
 - Microsoft Research Asia, Beijing, China, 16/08/2012
 - Nokia Research Labs, Beijing, China, 16/08/2012
 - RGC Seminar on Game Theory and Its Applications to Computer Network and Computer Communication Problems, Hong Kong Polytechnic University, Hong Kong, 07/08/2012
 - Network Science Workshop, Institute of Network Coding, The Chinese University of Hong Kong, Hong Kong, 26/07/2012
- “Cognitive Virtual Network Operator Games”
 - Department of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor, USA, 13/03/2014
 - School of Computing Science, Simon Fraser University, Vancouver, Canada, 08/06/2012
 - Department of Electrical and Computer Engineering, The University of British Columbia, Vancouver, Canada, 07/06/2012
 - Nanjing University of Posts and Telecommunications, Nanjing, China, 09/04/2012
 - Nokia Siemens Networks, Arlington Heights, IL, USA, 01/06/2011
 - Department of Electrical Engineering and Computer Science, Northwestern University, Evanston, Illinois, USA, 30/05/2011
 - Department of Automatic Control, Shanghai Jiaotong University, Shanghai, China, 15/04/2011
 - Department of Electrical Engineering and Computer Science, University of California Berkeley, Berkeley, California, USA, 10/08/2010
 - Department of Electrical Engineering, Princeton University, Princeton, New Jersey, USA, 25/08/2010
 - Telcordia, Piscataway, New Jersey, USA, 24/08/2010
 - Qualcomm Flarion Technology, Bridgewater, New Jersey, USA, 23/08/2010

- School of Electronics Engineering and Computer Science, Peking University, Beijing, China, 26/04/2010
- Research Institute of Information Technology, Tsinghua University, Beijing, China, 26/04/2010
- “Spatial Spectrum Access Game,” IEEE International Conference on Communications China (ICCC), Beijing, 17/08/2012
- “Economics of Cooperative Spectrum Sharing: Bargaining, Contract, and Auction”
 - Department of Electrical and Computer Engineering, University of Texas at Austin, Austin, Texas, USA, 02/12/2011
 - Department of Electrical and Computer Engineering, University of Houston, Houston, Texas, USA, 09/12/2011
 - School of Electronic Science and Engineering, Nanjing University, Nanjing, China, 08/11/2011
 - School of Information Science and Engineering, Southeast University, Nanjing, China, 07/11/2011
 - College of Electronics and Information, South China University of Technology, Guangzhou, China, 20/09/2011
 - School of Electronics Engineering and Computer Science, Peking University, Beijing, China, 20/06/2011
 - College of Information and Communications Engineering, Beijing University of Posts and telecommunications, Beijing, China, 16/06/2011
 - Department of Automatic Control, Tsinghua University, Beijing, China, 13/06/2011
- “Wireless Random Medium Access Control: Reverse and Forward Engineering”
 - Department of Electronic Engineering, Shanghai Jiaotong University, Shanghai, China, 09/10/2009
 - Research Institute of Information Technology, Tsinghua University, Beijing, China, 23/09/2009
 - Summer Research Institute, Ecole Polytechnique Federale de Lausanne (EPFL), Lausanne, Switzerland, 19/06/2009
 - Department of Computing, The Hong Kong Polytechnic University, Hong Kong, 12/01/2009
- “Price Differentiation for Communication Networks”
 - Department of Computer Science, Tsinghua University, Beijing, China, 15/06/ 2011
 - Department of Electrical Engineering and Computer Science, University of California Berkeley, Berkeley, California, USA, 17/08/2010
- “Power Control in Multi-carrier Communication Systems: A Marriage Between Optimization Theory and Game Theory”
 - Department of Electronic Engineering, Shanghai Jiaotong University, 02/07/2008
 - Faculty of Information Technology, Macau University of Science and Technology, Macau, 05/06/2008
- “FAST Copper for Broadband Access”
 - Qualcomm Flarion Technology, Bridgewater, New Jersey, USA, 12/07/2007
 - Department of Electrical Engineering and Computer Science, Northwestern University, Evanston, Illinois, USA, 01/06/2007
 - Motorola, Arlington Heights, Illinois, USA, 29/06/2007
- “Distributed Resource Allocation in Communication Networks: From Competition to Cooperation”
 - Shanghai Jiaotong University, Shanghai, China, 03/07/2008
 - Columbia University, New York City, New York, USA, 25/05/2007

- Department of Electrical and Computer Engineering, The Hong Kong University of Science and Technology, Hong Kong, 05/01/2007
- Department of Electronic and Information Engineering, The Hong Kong Polytechnic University, Hong Kong, 04/01/2007
- Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong, 02/01/2007
- “Safe Carrier Sensing in CSMA Networks under Physical Interference Model,” Department of Electrical Engineering and Computer Science, University of California Berkeley, Berkeley, California, USA, 19/08/2010
- “Game Theoretical Analysis of Vehicle-to-Grid Systems,” Institute of Interdisciplinary Information Science, Tsinghua University, Beijing, China, 14/06/2011
- “Simple, Robust, and Fast Random Access,” Department of Electrical Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea, 04/07/2009
- “Utility Optimal Random Access: Reverse and Forward Engineering,” Department of Electronic and Computer Engineering, The Hong Kong University of Science and Technology, Hong Kong, 02/04/2009
- “Reverse Engineering MAC: A Non-Cooperative Game Model”, Institute of Theoretical Computer Science, Tsinghua University, Beijing, China, 01/12/2007
- “Power Control in Multicarrier Communication Systems,” Department of Electrical Engineering, Yale University, New Haven, Connecticut, USA, 29/05/2006
- “Resource Allocation in OFDM Systems,” WINLAB, Rutgers University, North Brunswick, New Jersey, USA, 18/04/2006
- “Distributed Wireless Resource Allocation Game,” Motorola, Arlington Heights, Illinois, USA, 15/09/2005
- “Auction-based Spectrum Sharing,” Motorola, Arlington Heights, Illinois, USA, 09/09/2004

PROFESSIONAL SOCIETIES

- **Fellow** 01/2016 – Present
Institute of Electrical and Electronics Engineers (IEEE)
- **Member** 04/2015 – Present
Association for Computing Machinery (ACM)

VISITING AND GUEST PROFESSORSHIP

- Visiting Professor, Shanghai Jiaotong University, Shanghai, China, since 2015
- Guest Professor, Nanjing University of Posts & Telecommunications, Nanjing, Jiangsu, China, since 2012
- Visiting Scholar, Department of Electrical Engineering and Computer Sciences, University of California-Berkeley, Berkeley, CA, USA, August 2010
- Visiting Scholar, School of Computer and Communication Sciences, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, June 2009

CONFERENCE ORGANIZATION

- **Organizing Committee Member**
 1. Area TPC Chair, IEEE International Conference on Computer Communications (INFOCOM), Honolulu, HI, USA, 15/04 – 19/04/2018

2. General Co-Chair, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Shanghai, China, 7/05 – 11/05/2018
3. Technical Program Committee Co-Chair, Symposium on Cognitive Radio and Networks, IEEE Global Communications Conference (GLOBECOM), 04/12 - 10/12/2017
4. Steering Committee Member, IEEE Workshop on Sub-6 GHz SpEctrum for 5G Progress (SenSE5G), IEEE Global Communications Conference (GLOBECOM), 04/12 - 10/12/2017
5. Advisory Committee Member, International Conference on Networks and Network Applications, Kathmandu, Nepal, 13/10 – 16/10/2017
6. Technical Program Committee Co-Chair, Area of Wireless Networks and Applications, 29th International Teletraffic Congress (ITC), Genoa, Italy, 09/2017
7. Technical Program Committee Co-Chair, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Paris, France, 14/05 – 18/05/2017
8. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Atlanta, GA, USA, 01/05/2017
9. Workshop Co-Chair, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Sedona, Arizona, USA, 09/05 – 13/05/2016
10. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, San Francisco, CA, USA, 11/04/2016
11. Technical Program Committee Co-Chair, Symposium of Wireless Communications Systems, IEEE International Conference on Communications in China (ICCC), 02/11 - 04/11/2015
12. Steering Committee Member, International Conference on Advances in Computing, Communications and Informatics (ICACCI), Kerala, India, 10/08 - 13/10/2015
13. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Hong Kong, China, 26/04/2015
14. Local Arrangement Co-Chair, IEEE International Conference on Computer Communications (INFOCOM), Hong Kong, China, 26/04 – 01/05/2015
15. Steering Committee Member, IEEE International Conference on Multimedia & Expo (ICME), 06/2012 – 06/2014
16. Advisory Committee Member, International Conferences on Signal Processing and Communication Systems (ICSPCS), Gold Coast, Australia, 16/12 - 18/12/2013
17. Technical Program Committee Co-Chair, International Conference on NETwork Games, COntrol and OPTimization (NetGCoop), Trento, Italy, 29/10-31/10/2014
18. Technical Program Committee Co-Chair, Demand Response and Dynamic Pricing Symposium, IEEE International Conference on Smart Grid Communications (SmartGridComm), Venice, Italy, 03/11-07/11/2014
19. Steering Committee Member, International Workshop on Green Cognitive Communications and Computing Networks (co-located with IEEE INFOCOM), Toronto, Canada, 27/04 - 02/05/2014
20. Publicity Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Toronto, Canada, 02/05/2014
21. Technical Program Committee Co-Chair, Selected Areas in Communications Symposium (Game Theory for Communications Track), IEEE Global Communications Conference (GLOBECOM), 01/12 - 13/12/2013
22. Special Session Organizer, “Game Theory for Wireless Networks”, International Conference on Algorithms, Systems, and Applications of Wireless Networks (WASA), 08/08 – 08/10/2013
23. Technical Program Committee Co-Chair, Communication Theory and Security Symposium, IEEE International Conference on Communications in China (ICCC), Beijing, China, 15/08 - 18/08/2012
24. Publicity Co-Chair, IEEE Communication Theory Workshop (CTW), Maui, Hawaii, USA, 14/05 – 16/05/2012

25. Technical Program Committee Co-Chair, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Paderborn, Germany, 14/04 – 18/04/2012
 26. Student Activities Co-Chair, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Princeton, New Jersey, USA, 09/05 – 13/05/2011
 27. Special Session Organizer, “Economics of Dynamic Spectrum Management,” IEEE Dynamic Spectrum Access Networks (DySPAN), Aachen, Germany, 03/05 – 06/05/2011
 28. Special Session Organizer, “Wireless Networking Games,” International Conference on Game Theory for Networks (GameNets), Shanghai, China, 16/04 – 18/04/2011
 29. Technical Program Committee Co-Chair, Wireless Communications Symposium, IEEE Global Communications Conference (GLOBECOM), Miami, Florida, USA, 06/12 – 10/12/2010
 30. Technical Program Committee Co-Chair, Mobile Computing Symposium, ACM International Wireless Communications and Mobile Computing Conference (IWCMC), Caen, France, 28/06 – 02/07/2010
 31. Technical Program Committee Co-Chair, International Conference on Game Theory for Networks (GameNets), Istanbul, Turkey, 13/05 – 15/05/2009
 32. Special Session Organizer, “Collaboration and Optimization of Multimedia Communications,” International Symposium on Multimedia over Wireless (ISMW), Honolulu, HI, USA, 12/08 – 16/08/2007
 33. Special Session Organizer, “Intelligent Video Communications: Adaptation and Collaboration,” IEEE International Packet Video Workshop (PV), Hangzhou, China, 20/04 – 21/04/2006
- **Technical Program Committee Member**
 1. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), IIT Madras, Chennai, India, 10/07 – 14/07/2017
 2. IEEE International Conference on Computer Communications (INFOCOM), Atlanta, GA, USA, 01/05 – 04/05/2017
 3. The Workshop on the Economics of Networks, Systems and Computation (NetEcon), Juan-les-Pins, France, 14/06/2016
 4. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Paderborn, Germany, 04/07 – 08/07/2016
 5. IEEE International Conference on Computer Communications (INFOCOM), San Francisco, CA, USA, 10/04 – 15/04/2016
 6. IEEE International Conference on Smart Grid Communications (SmartGridComm), Miami, FL, USA, 12/11-05/11/2015
 7. IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), Dallas, TX, USA, 19/10 – 22/10/2015
 8. IEEE International Conference on Sensing, Communication, and Networking (SECON), Seattle, WA, USA, 22/06 – 25/06/2015
 9. IEEE International Conference on Computer Communications (INFOCOM), Hong Kong, China, 26/04 – 01/05/2015
 10. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Philadelphia, PA, USA, 11/08 - 14/08/2014
 11. The joint Workshop on Pricing and Incentives in Networks and Systems (W-PIN+NetEcon), Austin, USA, 16/06/2014
 12. IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Toronto, Canada, 02/05/2014
 13. IEEE International Conference on Communications (ICC), Sydney, Australia, 10/06 – 14/06/2014
 14. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Hammamet, Tunisia, 12/05 – 16/05/2014

15. IEEE International Conference on Computer Communications (INFOCOM), Toronto, Canada, 28/04 – 02/05/2014
16. IEEE Global Conference on Signal and Information Processing (GlobalSIP), Austin, Texas, USA, 03/12 - 05/12/2013
17. IEEE International Conference on Smart Grid Communications (SmartGridComm), Vancouver, Canada, 21/10 – 24/10/2013
18. IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Turin, Italy, 19/04/2013
19. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Bangalore, India, 29/07 – 01/08/2013
20. The joint Workshop on Pricing and Incentives in Networks and Systems (W-PIN+NetEcon), Pittsburgh, USA, 21/06/2013
21. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Tsukuba Science City, Japan, 13/05 – 17/05/2013
22. IEEE International Conference on Computer Communications (INFOCOM), Turin, Italy, 14/04 – 19/04/2013
23. International Conference on Network Games, Control and Optimization (NetGCooP), Paris, France, 28/11 – 30/11/2012
24. IEEE Global Communications Conference (GLOBECOM), Anaheim, California, USA, 03/12 – 07/12/2012
25. IEEE SmartGridComm 2012 Workshop - Cognitive and Machine-to-Machine Communications and Networking for Smart Grids (ComeOn), Tainan, Taiwan, 05/11 – 08/11/2012
26. The First Workshop of Pricing and Incentives in Networks (W-PIN), in conjunction with the ACM SIGMETRICS/Performance, London, UK, 11/06 – 15/06/2012
27. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Hilton Head Island, South Carolina, USA, 11/06 – 14/06/2012
28. IEEE International Conference on Computer Communications (INFOCOM), Orlando, Florida, USA, 25/03 – 30/03/2012
29. Computing, Communications and Applications Conference, Hong Kong, 11/01 – 13/01/2012
30. International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Beijing, China, 16/12 – 18/12/2011
31. IEEE International Workshop on Smart Grid Communications and Networks (SG-COMNETS), Houston, Texas, USA, 05/12/2011
32. IEEE International Conference on Communications (ICC), Kyoto, Japan, 05/06 – 09/06/2011
33. Workshop on the Economics of Networks, Systems, and Computation (NetEcon), San Jose, California, USA, 06/06/2011
34. International Workshop on Game Theory in Communication Networks (GameComm), Cachan, France, 16/05/2011
35. IEEE International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Princeton, New Jersey, USA, 09/05 – 13/05/2011
36. IEEE Dynamic Spectrum Access Networks (DySPAN), Aachen, Germany, 03/05 – 06/05/2011
37. International Conference on Game Theory for Networks (GameNets), Shanghai, China, 16/04 – 18/04/2011
38. IEEE International Conference on Computer Communications (INFOCOM), Shanghai, China, 10/04 – 15/04/2011
39. International Conference on Information and Communication Technology Convergence, Jeju Island, Korea, 17/11 – 19/11/2010

40. IEEE International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Avignon, France, 31/05 – 04/06/2010
41. IEEE International Conference on Communications (ICC), Cape Town, South Africa, 23/05 – 27/05/2010
42. IEEE International Conference on Computer Communications (INFOCOM), San Diego, CA, USA, 15/03 – 19/03/2010
43. IEEE WCNIS, Beijing, China, 25/06 – 27/06/2010
44. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), New Orleans, Louisiana, 18/05 – 21/05/2009
45. IEEE International Conference on Computer Communications (INFOCOM), Rio de Janeiro, Brazil, 19/04 – 25/04/2009
46. IEEE Wireless Communications & Networking Conference (WCNC), Budapest, Hungary, 05/04 – 08/04/2009
47. IEEE Wireless Communications & Networking Conference (WCNC), Las Vegas, Nevada, USA, 31/03 – 03/04/2008
48. IEEE Global Communications Conference (GLOBECOM), Washington DC, USA, 26/11 – 30/11/2007
49. International Conference on Communications and Networking in China (ChinaCom), Shanghai, China, 22/08 – 24/08/2007
50. International Conference on Cognitive Radio Oriented Wireless Networks and Communications (CrownCom), Orlando, Florida, USA, 31/07 – 03/08/2007
51. IEEE Consumer Communications and Networking Conference (CCNC), Las Vegas, Nevada, USA, 11/01 – 13/01/2007

● **Funding Proposal Reviewer**

1. The Natural Sciences and Engineering Research Council of Canada
2. Hong Kong Research Grant Council
3. Royal Society of New Zealand
4. The Chinese Ministry of Science and Technology

PROFESSIONAL SERVICES

- Chair, IEEE Communications Society Cognitive Networks Technical Committee (TCCN), 12/2016 – 12/2018
- Co-Chair, IEEE ComSoc Asia-Pacific Board Technical Affairs Committee, 01/2016 - 12/2017
 - Lead the selection of IEEE ComSoc APB Young Researcher Awards and Outstanding Paper Awards
- Member, the inaugural IEEE ComSoc Best Young Professional Award Committee, 2016
- Vice Chair, IEEE Communications Society Cognitive Networks Technical Committee (TCCN), 12/2014 – 12/2016
- Chair, IEEE Communications Society Multimedia Communications Technical Committee (MMTC), 06/2012 – 06/2014
 - Lead technical activities related to multimedia communications within IEEE Communications Society (ComSoc), with the support from a core leadership team of 50+ volunteers from academia and industry and close to 1000 active members in the community
 - Manage 13 Interests Groups that organized 50+ workshops, conference special sessions, and journal/magazine special issues since 2010
 - Advise the bi-monthly publications of MMTC *E-Letter* and *R-letter*, which introduce the latest technology trends and recommend excellent publications to the community

- Nominate TPC/Symposium Chairs for *IEEE GLOBECOM*, *ICC*, *ICME*, and *CCNC*, Editors for *IEEE Transactions on Multimedia*, and IEEE ComSoc Distinguished Lecturers
- Endorse MMTC Best Paper Awards, Service Awards, and Excellent Editor Awards
- Vice Chair, IEEE Communications Society Multimedia Communications Technical Committee (MMTC), 05/2010 – 06/2012
- Vice Chair, IEEE ComSoc Asia-Pacific Board Technical Affairs Committee, 01/2014 - 12/2015
- Steering Committee Member, *IEEE Transactions on Multimedia*, 01/2013 – 12/2014
 - Making strategic decisions for the journal, such as approving budgets, appointment of Editor-in-Chief and Associate Editors
- Chair, Meeting and Conference Committee, IEEE Communications Society Asia Pacific Board, 01/2012 – 12/2013
- Director, IEEE Communications Society Multimedia Communications Technical Committee Electronic Letter, 02/2010 – 05/2010

CUHK INTERNAL SERVICES

- Member, Management Committee of Shun Hing Institute of Advanced Engineering, 08/2017 - 07/2020
- Member, University Committee on Re-approval of Self-Financed Taught Postgraduate Programs, 10/2015 – 07/2016
- Member, Faculty Board, Faculty of Engineering, 08/2015 – 07/2017
- Member, Department Executive Committee, Information Engineering Department, 08/2014 – 07/2015, 08/2016 – 07/2017
- Director, Master of Science Program, Information Engineering Department, 08/2013 – now
- Department Coordinator, Chung Chi College, 08/2007– 07/2008, 08/2009 – now
- Member, Internet Engineering Panel, Information Engineering Department, 08/2013 – now
- Tutor Assignment Coordinator, Information Engineering Department, 08/2009 – 07/2014
- Member, Mathematics Subject Panel, Information Engineering Department, 08/2008 – 07/2014
- Member, Admission Committee, Information Engineering Department, 08/2010 – 07/2013
- Chair, Library Committee, Faculty of Engineering, 08/2009 – 07/2013
- Chair, Engineering Math Panel, Faculty of Engineering, 08/2011 – 10/2013
- Member, Newsletter Committee, Faculty of Engineering, 08/2009 – 07/2013
- Member, Work-Study Committee, Information Engineering Department, 08/2007 – 07/2013
- Industry Visit Coordinator, Information Engineering Department, 08/2007 – 07/2009
- Member, University User Committee on Spatial Reorganization of Existing University Library and Tin Ka Ping Building in Merging with the New Library Extension, 08/2011– 07/2012
- Member, University Library Committee, 08/2009 – 07/2012

EXTERNAL SERVICES

- Member of PhD Dissertation Committee, Department of Computing, The Hong Kong Polytechnic University, Hong Kong, 04/2016
- Member of PhD Dissertation Committee, Department of Computing, The Hong Kong Polytechnic University, Hong Kong, 04/2016
- Member of PhD Dissertation Committee, Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, Hong Kong, 03/2016
- Member of PhD Dissertation Committee, Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, Hong Kong, 08/2015
- Member of PhD Dissertation Committee, Department of Computer Science and Engineering, Hong Kong University of Science and Technology, Hong Kong, 02/2015
- Member of PhD Dissertation Committee, School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, 12/2014
- Member of PhD Dissertation Committee, Department of Computers and Networks, Telecom ParisTech, Paris, France, 12/2014
- Member of PhD Dissertation Committee, Department of Computer Science, City University of Hong Kong, Hong Kong, 10/2014
- Member of PhD Dissertation Committee, Department of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor, MI, USA, 05/2014
- Member of PhD Dissertation Committee, School of Computer Engineering, Nanyang Technological University, Singapore, 12/2013
- Member of PhD Dissertation Committee, Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, Hong Kong, 08/2013
- External Reviewer, PhD Dissertation, Interdisciplinary Information Sciences (IIIS), Tsinghua University, Beijing, China, 05/2013
- Member of PhD Dissertation Committee, Institute for Advanced Studies in Lucca, Tuscany, Italy, 11/2012
- Member of PhD Dissertation Committee, Ecole Polytechnique Federale de Lausanne (EPFL), Lausanne, Switzerland, 08/2010
- Founding Technical Committee Member, Jiangsu Linkage Software Institute, Jiangsu, China, 09/2008 – 08/2013