

CURRICULUM VITAE

Jianwei Huang

(June 18, 2020)

CAREER SUMMARY

- **Research Interests**
 - Wireless resource allocation, network games and economics, energy networks
- **Research Outputs**
 - 7 books/monographs, 13 book chapters, 119 journal/magazine papers, 159 conference papers
 - Google Scholar citations: 12053 (H-Index: 56), SCI citations: 5062 (H-index: 37)
- **Selected Awards**
 - Guangdong Pearl River Technology Leading Talent, 2019
 - Shenzhen Pengcheng Distinguished Professor, 2019
 - IEEE Fellow, 2015 (Class of 2016)
 - Thomson Reuters/Clarivate Analytics Highly Cited Researcher in Computer Science, 2016 & 2017
 - IEEE Communications Society Distinguished Lecturer, 2015 – 2018
 - IEEE Multimedia Communications Technical Committee Distinguished Service Award, 2015
 - The Chinese University of Hong Kong Young Researcher Award, 2014
 - IEEE Marconi Prize Paper Award in Wireless Communications, 2011
 - 8 Best Paper Awards from international conferences
 - IEEE Global Communications Conference (GLOBECOM) Outstanding Service Award, 2010
 - IEEE Communication Society Asia-Pacific Outstanding Young Researcher Award, 2009
- **Research Funding**
 - PI of 8 Hong Kong competitive General Research Funds (similar as NSF grants in the US)
 - Co-I of several large-scale multi-university international research projects
- **Student and Postdoc Supervision**
 - 14 PhDs and 3 Masters graduated, 9 PhD students ongoing
 - 18 visiting students from Canada, Switzerland, Greece, Singapore, India, Iran, and China
 - 11 Postdoc researchers with degrees from US, Canada, Australia, UK, Singapore, and China
- **Selected Professional Services**
 - Associate Editor-in-Chief, *IEEE Open Journal of the Communications Society*, *IEEE Communications Society Technology News*
 - Editor, *IEEE Transactions on Mobile Computing*, *IEEE/ACM Transactions on Networking*, *IEEE Journal on Selected Areas in Communications (Cognitive Radio Series)*, *IEEE Transactions on Wireless Communications*, *IEEE Transactions on Network Science and Engineering*, and *IEEE Transactions on Cognitive Communications and Networking*
 - Chair, IEEE Communications Society Cognitive Networks Technical Committee
 - Chair, IEEE Communications Society Multimedia Communications Technical Committee
 - Steering Committee Member, *IEEE Transactions on Multimedia*, *IEEE ICME*, and *WiOpt*
 - Guest editor of 12 journal special issues, including 4 in *IEEE Journal on Selected Areas in Communications*
 - Conferences: 39 times as steering/organizing committee members, 60 times as TPC members (including INFOCOM 2009-2021, Mobihoc 2009/2012-2014/2016-2019)
- **International Research Visibility**
 - Joint research funding (serving as PI) with Co-Is from Yale University, Princeton University, University of California Berkeley, University of Michigan, and Northwestern University
 - Joint research publications with researchers from 40+ leading research universities in USA/Canada/Europe/Asia
 - Deliver 13 keynote/plenary talks and 12 tutorials in international conferences and workshops
 - Deliver 114 distinguished lectures/invited talks worldwide, including 33 times in leading USA universities and companies

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

Working Experiences

- **Founding Director** 06/2019 – Present
Research Center on Crowd Intelligence, Shenzhen Institute of Artificial Intelligence and Robotics for Society
- **Vice President** 06/2019 – Present
Shenzhen Institute of Artificial Intelligence and Robotics for Society
- **Tenured Presidential Chair Professor, Associate Dean** 01/2019 – Present
School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen
- **Tenured Professor (on leave)** 01/2019 – Present
Department of Information Engineering, The Chinese University of Hong Kong
- **Tenured Professor** 08/2017 – 12/2018
Department of Information Engineering, The Chinese University of Hong Kong
- **Tenured Associate Professor** 08/2013 – 07/2017
Department of Information Engineering, The Chinese University of Hong Kong
- **Tenure-Track Assistant Professor** 08/2007 – 08/2013
Department of Information Engineering, The Chinese University of Hong Kong
- **Post-doctoral Research Associate** 11/2005 – 07/2007
Department of Electrical Engineering, Princeton University, Princeton, New Jersey, USA

VISITING AND GUEST PROFESSORSHIP

- **Guest Professor** 12/2017 –
School of Information Science and Engineering, Southeast University, Nanjing, Jiangsu, China
- **Visiting Professor (Part-Time)** 10/2015 – 10/2018
School of Electronic Information and Electrical Engineering, Shanghai Jiaotong University, Shanghai, China
- **Guest Professor** 04/2012 –
Nanjing University of Posts & Telecommunications, Nanjing, Jiangsu, China
- **Visiting Scholar** 08/2010
Department of Electrical Engineering and Computer Sciences, University of California-Berkeley, Berkeley, CA, USA
- **Visiting Scholar** 06/2009
School of Computer AND Communication Sciences, EPFL, Lausanne, Switzerland

RESEARCH INTERESTS

- Wireless networking and resource allocation
- Network games and economics
- Energy networks

AWARDS AND HONORS

• Research Recognition and Awards

1. Guangdong Pearl River Technology Leading Talent, 2019
2. Shenzhen Pengcheng Distinguished Professor, 2019
3. IEEE Fellow, 2015 (Class of 2016)
 - Citation: *for contributions to resource allocation in wireless systems*
 - One of the youngest IEEE Fellows elected worldwide in 2015 (at the age 37)
4. Thomson Reuters/Clarivate Analytics Highly Cited Researcher in Computer Science, 2016 & 2017
 - A total of 127 Highly Cited Researchers in Computer Science worldwide in 2016, including three from Hong Kong.
5. IEEE Communications Society Distinguished Lecturer, 2015 - 2018
6. The Chinese University of Hong Kong Young Researcher Award, 2014
 - Only recipient from the Faculty of Engineering at CUHK
7. IEEE Communication Society Asia-Pacific Outstanding Young Researcher Award, 2009
 - This award is given to a top young researcher (under 35 years old) active in IEEE Communication Society over the last 3 years
8. 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
9. Walter P. Murphy Fellowship, Northwestern University, 2001-2002

• Best Paper Awards/Finalists

1. IEEE Marconi Prize Paper Award in Wireless Communications, 2011
 - 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
2. IEEE Communications Society Young Professional Best Paper Award (as the advisor), 2017
 - G. Liao, X. Chen, and J. Huang, "Optimal Privacy-Preserving Data Collection: A Prospect Theory Perspective," *IEEE Global Communications Conference (GLOBECOM)*, Singapore, December 4 - 8, 2017
3. Best Paper Award Finalist (top 5 of 300 accepted papers), IEEE International Conference on Computer Communications (INFOCOM), San Francisco, CA, USA, April 2016
 - H. Yu, M. Cheung, L. Gao, and J. Huang, "Economics of Public Wi-Fi Monetization and Advertising"
4. Best Student Paper Award (as the advisor), International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt), Mumbai, India, May 2015
 - Q. Ma, L. Gao, Y. Liu, and J. Huang, "A Game-Theoretic Analysis of User Behaviors in Crowdsourced Wireless Community Networks"
5. Best Paper Award, International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt), Hammamet, Tunisia, May 2014

- Y. Luo, L. Gao, and J. Huang, "Trade Information, Not Spectrum: A Novel TV White Space Information Market Model"
- 6. Best Paper Award, International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt), Tsukuba Science City, Japan, May 2013
 - G. Iosifidis, L. Gao, J. Huang, and L. Tassiulas, "An Iterative Double Auction for Mobile Data Offloading"
- 7. Best Paper Award, IEEE International Conference on Smart Grid Communications (SmartGridComm), Tainan, Taiwan, November 2012
 - C. Wu, H. Mohsenian-Rad, and J. Huang, "PEV-based Reactive Power Compensation for Wind DG Units: A Stackelberg Game Approach"
- 8. Best Paper Award, International Conference on Wireless Internet (WiCON), Xi'An, China, October 2011
 - Y. Yan, J. Huang, and J. Wang, "Dynamic Bayesian Spectrum Bargaining with Non-Myopic Users"
- 9. Best Paper Award Finalist, International Conference on Game Theory for Networks (GameNets), Shanghai, China, April 2011
 - R. Southwell and J. Huang, "Convergence Dynamics of Resource-Homogeneous Congestion Games"
- 10. Best Paper Award, IEEE Global Communications Conference (GLOBECOM), Miami, USA, December 2010
 - F. Hou and J. Huang, "Dynamic Channel Selection in Cognitive Radio Network with Channel Heterogeneity"
- 11. Best Paper Award, Asia-Pacific Conference on Communications, Shanghai, China, October 2009
 - 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. Associate Editor-in-Chief, *IEEE Open Journal of the Communication Society*, 07/2019 - now
2. Editor, *IEEE Transactions on Mobile Computing* (Impact factor: 4.098), 01/2018 - now
3. Series Editor, *Wiley Information and Communication Technology Series*, 06/2017 - now
4. Editor, *IEEE Transactions on Network Science and Engineering*, 03/2017 - now
5. Area Editor, *Springer Encyclopedia of Wireless Networks (Area on Network Economics and pricing)*, 02/2017 - now
6. Section Editor, *Springer Handbook of Cognitive Radio (Section on Cognitive Radio Resource Management)*, 02/2016 - now
7. Editor, *IEEE/ACM Transactions on Networking* (Impact factor: 3.11), 12/2016 - now
8. Founding Editor, *IEEE Transactions on Cognitive Communications and Networking*, 01/2015 - now
9. Editor, *IEEE Transactions on Wireless Communications* (Impact factor: 5.888), 07/2010 - 06/2015
10. Founding Editor, *IEEE Journal on Selected Areas in Communications - Cognitive Radio Series* (Impact factor: 7.172), 10/2011 - 12/2014
11. Associate Editor-in-Chief, *IEEE Communication Society Technology News*, 01/2014 - 04/2014

12. Editor, *IEEE Communication Society Technology News*, 11/2012 - 12/2013
13. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 7.172), special issue on "Smart Data Pricing for Next Generation Networks," 2020
14. Lead Guest Editor, *IEEE Transactions on Network Science and Engineering*, special issue on "Economics of Modern Networks," 2019
15. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 7.172), special issue on "Game Theory for Networks," 2017
16. Guest Editor, *IEEE Transactions on Smart Grid* (Impact factor: 7.364), special Issue on "Big Data Analytics for Grid Modernization," 04/2016
17. Guest Editor, *IEEE Network* (Impact factor: 7.197), special issue on "Smart Data Pricing," 03/ 2016
18. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 7.172), special issue on "Economics of Communication Networks and Systems," 10/ 2012
19. Lead Guest Editor, *IEEE Communications Magazine* (Impact factor: 9.27), special issue on "Communications Network Economics," 09/2012
20. Lead Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 7.172), special issue on "Game Theory in Communication Systems," 09/2008
21. Associate Editor, (*Elsevier*) *Journal of Computer & Electrical Engineering*, 03/2007– 03/2010
22. Guest Editor, (*Wiley*) *Wireless Communications and Mobile Computing*, special issue on "Innovative Communications for a Better Future," 12/2010
23. Lead Guest Editor, *Journal of Communications*, special issue on "Cognitive Radio Enabled Communication and Networking," 10/2009
24. Lead Guest Editor, (*Hindawi*) *Advances of Multimedia*, special issue on "Collaborating and Optimization in Multimedia Communications," 2008
25. Guest Editor, (*Hindawi*) *Advances of Multimedia*, special issue on "Cross-layer Optimized Wireless Multimedia Communications," 2007

RESEARCH GRANTS

- Principle Investigator, "Network Communication and Economics" (reference number PF011001253), Presidential Fund, The Chinese University of Hong Kong, Shenzhen, 01/01/2019 - 31/12/2021, RMB 4,000,000
- Principle Investigator, "Incentive Mechanism and Coordination Theory Design for Crowd Intelligence" (reference number 2019-INT004), Internal Research Fund, Shenzhen Institute of Artificial Intelligence and Robotics for Society, 01/06/2019 - 31/05/2021, RMB 7,340,000
- Principle Investigator, "Collaborative Economics of Wireless Networks" (reference number 14219016), General Research Fund, Hong Kong Research Grants Council, 01/07/2016 – 30/06/2019, HKD 675,647 (Co-I: Leandros Tassiulas, Yale University)
- 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 (Co-I: Jean Walrand, University of California Berkeley)
- 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 (Co-I: Leandros Tassiulas, Yale University)

- 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 (Co-I: Michael Honig, Northwestern University)
- 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 – 31/12/2012, HKD 452,952 (Co-I: Mingyan Liu, University of Michigan)
- 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-I: Mung Chiang, Princeton University)
- 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. Yang, J. Huang, T. Zhang, and J. Weinman (editors), *Fog and Fogonomics: Challenges and Practices of Fog Computing, Communication, Networking, Strategy, and Economics*, Wiley, January 2020
 - (M2) Y. Wu, L. Qian*, J. Huang, and X. Shen, *Radio Resource Management for Mobile Traffic Offloading in Heterogeneous Cellular Networks*, Springer, 2017
 - (M3) Y. Luo†, L. Gao†, and J. Huang*, *Economics of Database-Assisted Spectrum Sharing*, Springer, July 2016
 - (M4) X. Chen† and J. Huang*, *Social Cognitive Radio Networks*, Springer, January 2015
 - (M5) L. Duan†, J. Huang*, and B. Shou, *Cognitive Mobile Virtual Network Operator Games*, Springer, October 2013
 - (M6) Y. Zhang*, L. Qian†, and J. Huang, *Monotonic Optimization in Communication and Networking Systems*, Foundation and Trends in Networking, Now Publisher, October 2013

(M7) 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) G. Iosifidis, L. Gao, J. Huang, and L. Tassiulas, "Empowering Fog Computing Through User-Provided Infrastructures," chapter in *Fog and Fogonomics: Challenges and Practices of Fog Computing, Communication, Networking, Strategy, and Economics*, Y. Yang, J. Huang, T. Zhang, and J. Weinman (editors), Wiley, January 2020
- (B2) X. Chen, and J. Huang, "Spatial Spectrum Access Game," chapter in *Handbook of Cognitive Radio*, W. Zhang (editor), Springer, May 2017
- (B3) 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
- (B4) 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
- (B5) 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
- (B6) 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
- (B7) 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
- (B8) 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
- (B9) 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
- (B10) 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
- (B11) 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
- (B12) 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
- (B13) 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) G. Liao[†], X. Chen, and J. Huang*, "Social-Aware Privacy-Preserving Mechanism for Correlated Data," *IEEE/ACM Transactions on Networking*, accepted in April 2020
- (J2) M. Tang[†], L. Gao, and J. Huang*, "Communication, Computation, and Caching Resource Sharing for Internet-of-Things," *IEEE Communications Magazine*, vol. 58, no. 4, pp. 75 - 80, April 2020
- (J3) M. Cheung, F. Hou, J. Huang*, and R. Southwell, "Distributed Time-Sensitive Task Selection in Mobile Crowdsensing," *IEEE Transactions on Mobile Computing*, accepted in February 2020
- (J4) G. Liao[†], X. Chen, and J. Huang*, "Prospect Theoretic Privacy-Preserving Mechanism," *IEEE/ACM Transactions on Networking*, accepted in October 2019

Table 1: Summary of Publication Statistics in Selected Top Journals

Journal	Impact Factor	# of Publications
<i>IEEE Journal on Selected Areas in Communications</i>	9.302	29
<i>IEEE Transactions on Wireless Communications</i>	6.394	13
<i>IEEE Transactions on Mobile Computing</i>	4.474	33
<i>IEEE/ACM Transactions on Networking</i>	3.597	14
<i>IEEE Transactions on Smart Grid</i>	10.486	9

- (J5) D. Zhao[†], H. Wang, J. Huang*, and X. Lin, "Storage or No Storage: Duopoly Competition Between Renewable Energy Suppliers in a Local Energy Market," *IEEE Journal on Selected Areas in Communications*, accepted in October 2019
- (J6) Z. Wang[†], L. Gao, J. Huang*, and B. Shou, "Towards Flexible Wireless Data Services," *IEEE Communications Magazine*, accepted in September 2019)
- (J7) M. Zhang[†], J. Huang*, and R. Zhang, "Wireless Power Transfer with Information Asymmetry: A Public Goods Perspective," *IEEE Transactions on Mobile Computing*, accepted in August 2019
- (J8) D. Zhao[†], H. Wang, J. Huang*, and X. Lin, "Virtual Energy Storage Sharing and Capacity Allocation," *IEEE Transactions on Smart Grid*, accepted in July 2019
- (J9) M. Zhang[†] and J. Huang*, "Efficient Network Sharing with Asymmetric Constraint Information," *IEEE Journal on Selected Areas in Communications*, accepted in June 2019
- (J10) Z. Wang[†], L. Gao, and J. Huang*, "Multi-Cap Optimization for Wireless Data Plans with Time Flexibility," *IEEE Transactions on Mobile Computing*, IEEE Early Access Article, June 2019
- (J11) Z. Wang[†], L. Gao, and J. Huang*, "Duopoly Competition for Mobile Data Plans with Time Flexibility," *IEEE Transactions on Mobile Computing*, IEEE Early Access Article, April 2019
- (J12) H. Yu[†], G. Iosifidis, B. Shou, and J. Huang*, "Pricing for POI-Based Collaboration Between Online Apps and Offline Venues," *IEEE Transactions on Mobile Computing*, IEEE Early Access Article, April 2019
- (J13) Q. Shao[†], M. Cheung, and J. Huang*, "Multimedia Crowdsourcing with Bounded Rationality: A Cognitive Hierarchy Prospective," *IEEE Journal on Selected Areas in Communications*, vol. 37, no. 7, pp. 1478 - 1488, July 2019
- (J14) M. Zhang[†], L. Gao, J. Huang*, and M. Honig, "Hybrid Pricing for Mobile Collaborative Internet Access," *IEEE/ACM Transactions on Networking*, vol. 27, no. 3, pp. 986 - 999, June 2019
- (J15) T. Luo*, J. Huang, S. Kanhere, J. Zhang, and S. Das, "Improving IoT Data Quality in Mobile Crowdsensing: A Cross Validation Approach," *IEEE Internet of Things Journal*, vol. 6, no. 3, pp. 5651 - 5664, June 2019
- (J16) Z. Wang[†], L. Gao, and J. Huang*, "Exploring Time Flexibility in Wireless Data Plans," *IEEE Transactions on Mobile Computing*, IEEE Early Access Article, 2018
- (J17) S. Bahrami[†], V. Wong*, and J. Huang, "Data Center Demand Response in Deregulated Electricity Markets," *IEEE Transactions on Smart Grid*, vol. 10, no. 3, pp. 2820 - 2832, May 2019
- (J18) L. Gao[†], M. Tang[†], H. Pang[†], J. Huang*, and L. Sun, "Multi-User Cooperative Mobile Video Streaming: Performance Analysis and Online Mechanism Design," *IEEE Transactions on Mobile Computing*, vol. 18, no. 2, pp. 376 - 389, February 2019
- (J19) M. Cheung[†], F. Hou*, and J. Huang, "Delay-Sensitive Mobile Crowdsensing: Algorithm Design and Economics," *IEEE Transactions on Mobile Computing*, vol. 17, no. 12, pp. 2761 - 2774, December 2018
- (J20) M. Tang[†], L. Gao, and J. Huang*, "Enabling Edge Cooperation in Tactile Internet via 3C Resource Sharing," *IEEE Journal on Selected Areas in Communications*, vol. 36, no. 11, pp. 2444 - 2454, October 2018
- (J21) M. Tang[†], H. Pang[†], S. Wang[†], L. Gao, J. Huang*, and L. Sun, "Multi-Dimensional Auction Mechanisms for Crowdsourced Mobile Video Streaming," *IEEE/ACM Transactions on Networking*, vol. 26, no. 5, pp. 2062 - 2075, October 2018

- (J22) Y. Wu, Y. He[†], L. Qian^{*}, J. Huang, and X. Shen, "Optimal Resource Allocations for Mobile Data Offloading via Dual-Connectivity," *IEEE Transactions on Mobile Computing*, vol. 17, no. 10, pp. 2349 - 2365, October 2018
- (J23) S. Wang[†], S. Bi^{*}, Y. Zhang, and J. Huang, "Electrical Vehicle Charging Station Profit Maximization: Admission, Pricing, and Online Scheduling," *IEEE Transactions on Sustainable Energy*, vol. 9, no. 4, pp. 1722 - 1731, October 2018
- (J24) S. Bahrami[†], V. Wong^{*}, and J. Huang, "An Online Learning Algorithm for Demand Response in Smart Grid," *IEEE Transactions on Smart Grid*, vol. 9, no. 5, pp. 4712 - 4725, September 2018
- (J25) H. Wang[†] and J. Huang^{*}, "Incentivizing Energy Trading for Interconnected Microgrids," *IEEE Transactions on Smart Grid*, vol. 9, no. 4, pp. 2647 - 2657, July 2018 (**ESI Highly Cited Paper and ESI Hot Paper**)
- (J26) Q. Ma[†], L. Gao^{†*}, Y. Liu, and J. Huang, "Incentivizing Wi-Fi Network Crowdsourcing: A Contract Theoretic Approach," *IEEE/ACM Transactions on Networking*, vol. 26, no. 3, pp. 1035 - 1048, June 2018
- (J27) C. Jiang[†], L. Gao[†], L. Duan, and J. Huang^{*}, "Data-Centric Mobile Crowdsensing," *IEEE Transactions on Mobile Computing*, vol. 17, no. 6, pp. 1275 - 1288, June 2018
- (J28) J. Huang^{*}, "New Networks, New Economics," *China Computer Federation Communications (Chinese)*, vol. 14, no. 5, pp. 58-63, May 2018
- (J29) Y. Luo[†], N. Shah[†], J. Huang^{*}, and J. Walrand, "Parametric Prediction from Parametric Agents," *Operations Research*, vol. 66, no. 2, pp. 313 - 326, March - April 2018
- (J30) C. Jiang[†], L. Gao[†], L. Duan, and J. Huang^{*}, "Scalable Mobile Crowdsensing via Peer-to-Peer Data Sharing," *IEEE Transactions on Mobile Computing*, vol. 17, no. 4, pp. 898 - 912, April 2018
- (J31) H. Shah-Mansouri[†], V. Wong^{*}, and J. Huang, "An Incentive Framework for Mobile Data Offloading Market under Price Competition," *IEEE Transactions on Mobile Computing*, vol. 16, no. 11, pp. 2983 - 2999, November 2017
- (J32) H. Yu[†], M. Cheung[†], G. Iosifidis, L. Gao[†], L. Tassiulas, and J. Huang^{*}, "Mobile Data Offloading for Green Wireless Networks," *IEEE Wireless Communications*, vol. 24, no. 4, pp. 31 - 37, August 2017
- (J33) H. Yu[†], M. Cheung[†], L. Gao[†], and J. Huang^{*}, "Public Wi-Fi Monetization via Advertising," *IEEE/ACM Transactions on Networking*, vol. 25, no. 4, pp. 2110 - 2121, August 2017
- (J34) Q. Ma[†], L. Gao^{†*}, Y. Liu, and J. Huang, "Economic Analysis of Crowdsourced Wireless Community Networks," *IEEE Transactions on Mobile Computing*, vol. 16, no. 7, pp. 1856 - 1869, July 2017
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- [C4] Y. Liu[†], Z. Fang[†], M. Cheung, W. Cai and J. Huang, "Economics of Blockchain Storage," *IEEE International Conference on Communications (ICC)*, Dublin, Ireland, June 7-11, 2020
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- [C11] M. Zhang[†], A. Arafa, J. Huang, and H.V. Poor, "How to Price Fresh Data," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Avignon, France, June 4-6, 2019
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- [C13] M. Zhang[†] and J. Huang, "Mechanism Design for Network Utility Maximization with Private Constraint Information," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Paris, France, April 29 - May 2, 2019.
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- [C86] X. Chen[†] and J. Huang, "Spatial Spectrum Access Game: Nash Equilibria and Distributed Learning," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)* (acceptance rate: 20%), Hilton Head Island, South Carolina, USA, June 2012
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- [C149] 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
- [C150] 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
- [C151] 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
- [C152] 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
- [C153] 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
- [C154] 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
- [C155] 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
- [C156] 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
- [C157] 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
- [C158] 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
- [C159] 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
- L. Sun, S. Wang, M. Tang, L. Gao, and J. Huang, "A Method for End-to-End Fair Collaborative Video Transmission," China patent No. CN 105898550 B, March 2019

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
- 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 at CUHK 07/2010, currently a Distinguished Professor at Xiamen University (China), recipient of **Chinese Thousand Talents Plan Award for Young Professionals 2015**
2. Lingjie Duan: thesis title "Some Economics of Cellular and Cognitive Radio Networks," PhD defense at CUHK 06/2012, currently an tenured Associate Professor at Singapore University of Technology and Design (Singapore), recipient of **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 at CUHK 06/2012, currently a Full Professor at Sun Yat-Sen University (China), recipient of **Hong Kong Young Scientist Award Runner-Up 2014**, **Chinese Thousand Talents Plan Award for Young Professionals 2016**, and **IEEE Communications Society Asia-Pacific Outstanding Young Researcher Award 2017**
4. Shuqing Li: thesis title "Revenue Maximization for Communication Networks" (co-supervision with Prof. Shuo-Yen Robert Li), PhD defense at CUHK 07/2012, first job as a Research Scientist at Bell Labs (China)
5. Lok Man Law: thesis title "Game Theoretical Analysis of Congested Wireless Networks" (co-supervision with Prof. Shuo-Yen Robert Li), PhD defense at CUHK 03/2013, first job as an Engineer at SmarTone Vodafone (Hong Kong)
6. Yuan Luo: thesis title "Economics of White Space Network," PhD defense at CUHK 08/2015, currently a Research Fellow at Imperial College London (UK), recipient of 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 title "Economic Mechanisms for Integrating Smart Grid Technologies into Power System," PhD defense at CUHK 05/2016, currently a Postdoc Fellow at Stanford University (USA)

8. Haoran Yu: thesis title "Optimization and Economic Analysis of Wi-Fi Networks", PhD defense at CUHK 08/2016, currently a Associate Professor at Beijing Institute of Technology (China)
 9. Qian Ma: thesis title "Incentive Mechanism Design for Networked Markets", PhD defense at CUHK 02/2017, currently a Associate Professor at Sun Yat-Sen University (China) Fellow at Northeastern Univeristy (USA), recipient of the **IEEE WiOpt 2015 Best Student Paper Award**
 10. Changkun Jiang: thesis title "Crowdsourced Network Resource Sharing: Optimization and Incentives", PhD defense at CUHK 06/2017, currently an Assistant Professor at Shenzhen University
 11. Junlin Yu: thesis title "Behavior Economic Analysis in Wireless Networks", PhD defense at CUHK 08/2017, first job as an Engineer at Huawei
 12. Ming Tang: thesis title "Optimizations and Economics of Multimedia Services", **Hong Kong PhD Fellow**, PhD defense at CUHK 09/2018, currently a Postdoc Fellow at University of British Columbia
 13. Zhiyuan Wang: thesis topic "Economics of Mobile Data Pricing", **Hong Kong PhD Fellow**, PhD defense at CUHK 08/2019, currently a postdoc researcher at the Chinese University of Hong Kong
 14. Meng Zhang: thesis title "Network Sharing Economy: Pricing and Mechanism Design", PhD defense at CUHK 09/2019, currently a postdoc researcher at the Chinese University of Hong Kong
- **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. Dongwei Zhao (CUHK): thesis topic "Economic Mechanism Design for Smart Grid Storage Systems", starting 08/2015
 2. Guocheng Liao (CUHK): thesis topic "Data Privacy Protection of Big Data Market", starting 08/2016
 3. Qi Shao (CUHK): thesis topic "Behavior Economics of Crowd Sourcing", **Hong Kong PhD Fellow**, starting 08/2017
 4. Chao Huang (CUHK): thesis topic "Social Voting", starting 08/2017
 5. Ningning Ding (CUHK): thesis topic "Economics of Network Resource Sharing", starting 08/2018
 6. Yunshu Liu (CUHK): thesis topic "Economics of Blockchain", starting 08/2018 (co-supervision with Prof. Man Hon Cheung)
 7. Xiaomin Ouyang (CUHK): thesis topic TBD, starting 08/2019 (co-supervision with Prof. Guoliang Xing)
 8. Haoxuan Che (CUHK Shenzhen): thesis topic TBD, starting 08/2019
 9. Qinqi Lin (CUHK Shenzhen): thesis topic TBD, starting 01/2020
 - **Post-doctoral Researchers**
 1. Dr. Lihua Ruan, Ph.D. from University of Melbourne (Australia), postdoc at CUHK Shenzhen starting 12/2019
 2. Dr. Bing Luo, Ph.D. from University of Melbourne (Australia), postdoc at CUHK Shenzhen starting 10/2019
 3. Dr. Yunpeng LI, Ph.D. from Singapore University of Technology and Design, postdoc at CUHK Shenzhen starting 08/2019
 4. Dr. Zhixuan Fang, Ph.D. from Tsinghua University (China), postdoc at CUHK since 08/2018
 5. Dr. Yanru Zhang, Ph.D. from University of Houston (USA), postdoc at CUHK 03/2017 – 06/2018, currently a Full Professor at the University of Electronic Science and Technology of China

6. Dr. Man Hon Cheung: Ph.D. from University of British Columbia (Canada), postdoc at CUHK (jointly with University of Macau) 08/2012 - 06/2017, currently a Research Assistant Professor at the Chinese University of Hong Kong
7. Dr. Lin Gao: Ph.D. from Shanghai Jiaotong University (China), postdoc at CUHK 09/2010 – 08/2015, currently an Associate Professor at Harbin Institute of Technology (Shenzhen), recipient of **IEEE WiOpt 2013/2014/2015 Best (Student) Paper Award** and **IEEE Communications Society Asia-Pacific Outstanding Young Researcher Award 2016**
8. Dr. Richard Southwell: Ph.D. from Sheffield University (UK), postdoc at CUHK 09/2010 – 12/2014, first job Assistant Professor at Tsinghua University (China)
9. Dr. Quansheng Guan: Ph.D. from South China University of Technology, postdoc at CUHK during 02/2012 – 02/2013, currently a Full Professor at South China University of Technology (China)
10. Dr. Fen Hou: Ph.D. from University of Waterloo (Canada), postdoc at CUHK during 08/2009 – 03/2011, currently an Assistant Professor at University of Macau, recipient of **IEEE GLOBECOM 2010 Best Paper Award**
11. Dr. Junhua Zhu: Ph.D. from Hong Kong University of Science and Technology, postdoc at CUHK during 03/2009 – 12/2009, first job 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 and CUHKSZ 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.

Table 2: Summary of Course Evaluations

Year	Term	Course	Title (Undergraduate/Graduate)	Class Size	Mean (Dept. Mean)
2019/2020	1	EIE3280	Networks: Tech., Econ. & Society (U)	46	6.00 (5.61)
2018/2019	3	EIE3280	Networks: Tech., Econ. & Society (U)	35	6.00 (5.72)
2018/2019	1	IERG5330	Network Economics (G)	44	5.93 (5.74)
2017/2018	1	GECC4130	Chung Chi Senior Seminar (U)	24	5.82 (5.03)
2017/2018	1	ESTR3302	Networks: Tech., Econ. & Social Inter. (U)	9	6.00 (5.24)
2017/2018	1	IERG3280	Networks: Tech., Econ. & Social Inter. (U)	44	5.50 (5.24)
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)

- Department (School) 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.

HALF-DAY TUTORIALS

- Optimization and Economics of Edge-based User-Provided Networks
 - IEEE ICC, Shanghai, China, 05/2019
- Optimization and Economics of Mobile Crowd Sensing
 - IEEE GLOBECOM, Abu Dhabi, UAE, 09/12/2018
- Fog Computing and Networking: A New Paradigm for 5G and IoT Applications
 - IEEE ICC, Paris, France, 21/05/2017
 - IEEE ICC, Kansas, USA, 20/05/2018
- 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/PLENARY TALKS

- “Eliciting Information Via Crowd Intelligence,” International Conference on Networks, Communication and Computing (ICNCC), Tokyo, Japan, 18/12/2020
- “Eliciting Information Via Crowd Intelligence,” International Workshop of High-Fidelity Internet of Things Workshop, Shandong University, Qingdao, China, 27/10/2019
- “A General Framework for Crowdsourcing Mobile Resources,” Symposium on AI-Enabled Internet of Things, China Cloud Computing and Internet of Things Conference, Chongqing, China, 15/05/2019
- “Economics of Mobile Crowdsensing,” Annual ShanghaiTech Symposium on Information Science and Technology (ASSIST), 01/07/2019
- “Economics of Mobile Crowdsensing,” UESTC Workshop on Information Engineering, 14/06/2019
- “Achieving Efficient and Fair Equilibria Through Taxation,” Asia-Pacific Conference on Communications, Perth, Australia, 11/12/2017
- “Renewable Energy Investment and Operation in Microgrids,” IEEE International Conference on Smart Grid Communications (SmartGridComm), Dresden, Germany, 25/10/2017
- “Communication Network Economics,” Workshop on Computing, Communications, and Caching, China Institute of Communications, Chongqing, China, 23/09/2017
- “Communication Network Economics,” 2016 Shannon Workshop, Shanghai Jiaotong University, Shanghai, China, 14/12/2016
- “Incentive Mechanisms for User-Provided Networks,” International Conference on Networking and Network Applications, Hakodate City, Hokkaido, Japan, 24/07/2016

- “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

DISTINGUISHED LECTURES/INVITED PRESENTATIONS

- “Economics of Mobile Crowd Sensing”
 - International Workshop on Intelligent Networks and Edge Computing, Guangzhou, China, 15/08/2019
 - CUHK-Shenzhen Workshop on Optimization Theory and Applications, Shenzhen, China, 01/08/2019
- “Economic Thinking of Communications Network”
 - Technology Frontier Workshop of China Communications, Hangzhou, China, 05/08/2019
 - Department of Electrical Engineering and Computer Science, IEEE ComSoc San Francisco Chapter, San Francisco, CA, USA, 18/07/2018 (*IEEE ComSoc Distinguished Lecture*)
 - Department of Electrical Engineering and Computer Science, University of California at Berkeley, Berkeley, CA, USA, 17/07/2018 (*IEEE ComSoc Distinguished Lecture*)
 - Department of Electrical Engineering and Computer Science, Northwestern University, Evanston, IL, USA, 11/07/2018 (*IEEE ComSoc Distinguished Lecture*)
 - Department of Electrical and Computer Engineering, University of British Columbia, BC, Canada, 09/07/2018 (*IEEE ComSoc Distinguished Lecture*)
 - Department of Electrical and Computer Engineering, University of Victoria, BC, Canada, 05/07/2018 (*IEEE ComSoc Distinguished Lecture*)
 - Naveen Jindal School of Management, University of Texas at Dallas, Dallas, TX, USA, 03/07/2018 (*IEEE ComSoc Distinguished Lecture*)
 - Department of Electrical Engineering, University of Southern California, Los Angeles, CA, USA, 29/06/2018 (*IEEE ComSoc Distinguished Lecture*)
 - School of Information Science and Engineering, Southeast University, Nanjing, China, 03/01/2018
 - Pillar of Engineering System & Design, Singapore University of Technology & Design, Singapore, 04/12/2017
 - Department of Electrical and Computer Engineering, Northeastern University, MA, USA, 14/11/2017
 - Department of Aeronautics and Astronautics, Massachusetts Institute of Technology, MA, USA, 13/11/2017
- “Network Economics of Fog Networking”
 - OpenFog Greater China Region Opening Ceremony, Shanghai Tech University, Shanghai, China, 24/04/2017
- “Economics of Wi-Fi Networks”
 - OpenFog Great China Region Workshop, Shanghai Tech University, Shanghai, China, 02/07/2017
 - Department of Computer Science, University of Paris-Sud, Paris, France, 21/05/2017 (*IEEE ComSoc Distinguished Lecture*)
 - School of Information Science and Engineering, Southeast University, Nanjing, China, 21/04/2017

- “Communications Network Economics”
 - Huawei Research, Paris, France, 23/05/2017 (*IEEE ComSoc Distinguished Lecture*)
 - School of Computer Science and Statistics, Trinity College Dublin, Ireland, 12/05/2017 (*IEEE ComSoc Distinguished Lecture*)
 - IEEE ComSoc Seattle Chapter, Seattle, WA, USA, 09/05/2017 (*IEEE ComSoc Distinguished Lecture*)
 - IEEE ComSoc Atlanta Chapter, Atlanta, GA, USA, 03/05/2017 (*IEEE ComSoc Distinguished Lecture*)
 - The Advanced Networks Colloquia Series, 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, United Kingdom, 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, United Kingdom, 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, IL, 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, CA, USA, 10/08/2010
- Department of Electrical Engineering, Princeton University, Princeton, NJ, USA, 25/08/2010
- Telcordia, Piscataway, New Jersey, USA, 24/08/2010
- Qualcomm Flarion Technology, Bridgewater, NJ, 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, China, 17/08/2012
- “Economics of Cooperative Spectrum Sharing: Bargaining, Contract, and Auction”
 - Department of Electrical and Computer Engineering, University of Texas at Austin, Austin, TX, USA, 02/12/2011
 - Department of Electrical and Computer Engineering, University of Houston, Houston, TX, 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, Shanghai, China 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, NJ, USA, 12/07/2007

- Department of Electrical Engineering and Computer Science, Northwestern University, Evanston, IL, USA, 01/06/2007
- Motorola, Arlington Heights, IL, 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, CA, 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, CT, USA, 29/05/2006
- “Resource Allocation in OFDM Systems,” WINLAB, Rutgers University, North Brunswick, NJ, USA, 18/04/2006
- “Distributed Wireless Resource Allocation Game,” Motorola, Arlington Heights, IL, USA, 15/09/2005
- “Auction-based Spectrum Sharing,” Motorola, Arlington Heights, IL, 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)

CONFERENCE ORGANIZATION

- **Organizing Committee Member**
 1. Steering Committee Member, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), 09/2018 - Present
 2. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Vancouver, Canada, 10/05 – 13/05/2021

3. Technical Program Committee Co-Chair, IEEE International Conference on Communications (ICC), Dublin, Ireland, 07/06 – 11/06/2020
4. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Beijing, China, 27/04 – 30/04/2020
5. Technical Program Committee Track Co-Chair (MAC and Cross-Layer Design), IEEE Wireless Communications and Networking Conference (WCNC), 04/04 – 09/04/2020
6. General Chair, IEEE International Conference on Computer Communications (INFOCOM) Workshop on the Economics of Fog, Edge and Cloud Computing (ECOFEC), Paris, France, 29/04/2019
7. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Paris, France, 29/04 – 02/05/2019
8. Technical Program Committee Co-Chair, International Conference on NETwork Games, COntrol and OPTimization (NetGCoop), New York, NY, USA, 15/11-16/11/2018
9. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Honolulu, HI, USA, 15/04 – 19/04/2018
10. General Co-Chair, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Shanghai, China, 7/05 – 11/05/2018
11. Technical Program Committee Co-Chair, Symposium on Cognitive Radio and Networks, IEEE Global Communications Conference (GLOBECOM), 04/12 - 10/12/2017
12. General Co-Chair, CUHK Fog Computing and Communications Workshop, Hong Kong, 09/2017
13. Technical Program Committee Co-Chair, Area of Wireless Networks and Applications, 29th International Teletraffic Congress (ITC), Genoa, Italy, 09/2017
14. 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
15. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Atlanta, GA, USA, 01/05/2017
16. 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
17. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, San Francisco, CA, USA, 11/04/2016
18. Technical Program Committee Co-Chair, Symposium of Wireless Communications Systems, IEEE International Conference on Communications in China (ICCC), 02/11 - 04/11/2015
19. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Hong Kong, China, 26/04/2015
20. Local Arrangement Co-Chair, IEEE International Conference on Computer Communications (INFOCOM), Hong Kong, China, 26/04 – 01/05/2015
21. Steering Committee Member, IEEE International Conference on Multimedia & Expo (ICME), 06/2012 – 06/2014
22. Advisory Committee Member, International Conferences on Signal Processing and Communication Systems (ICSPCS), Gold Coast, Australia, 16/12 - 18/12/2013
23. Technical Program Committee Co-Chair, International Conference on NETwork Games, COntrol and OPTimization (NetGCoop), Trento, Italy, 29/10-31/10/2014
24. 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
25. Steering Committee Member, International Workshop on Green Cognitive Communications and Computing Networks (co-located with IEEE INFOCOM), Toronto, Canada, 27/04 - 02/05/2014
26. Publicity Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Toronto, Canada, 02/05/2014

27. 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
28. Special Session Organizer, "Game Theory for Wireless Networks", International Conference on Algorithms, Systems, and Applications of Wireless Networks (WASA), 08/08 - 08/10/2013
29. 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
30. Publicity Co-Chair, IEEE Communication Theory Workshop (CTW), Maui, Hawaii, USA, 14/05 - 16/05/2012
31. 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
32. 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
33. Special Session Organizer, "Economics of Dynamic Spectrum Management," IEEE Dynamic Spectrum Access Networks (DySPAN), Aachen, Germany, 03/05 - 06/05/2011
34. Special Session Organizer, "Wireless Networking Games," International Conference on Game Theory for Networks (GameNets), Shanghai, China, 16/04 - 18/04/2011
35. Technical Program Committee Co-Chair, Wireless Communications Symposium, IEEE Global Communications Conference (GLOBECOM), Miami, Florida, USA, 06/12 - 10/12/2010
36. Technical Program Committee Co-Chair, Mobile Computing Symposium, ACM International Wireless Communications and Mobile Computing Conference (IWCMC), Caen, France, 28/06 - 02/07/2010
37. Technical Program Committee Co-Chair, International Conference on Game Theory for Networks (GameNets), Istanbul, Turkey, 13/05 - 15/05/2009
38. Special Session Organizer, "Collaboration and Optimization of Multimedia Communications," International Symposium on Multimedia over Wireless (ISMW), Honolulu, HI, USA, 12/08 - 16/08/2007
39. 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 Workshop on the Economics of Networks, Systems and Computation (NetEcon), Budapest, Hungary 17/07/2020
2. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Shanghai, China, 30/06 - 03/07/2020
3. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Volos, Greece, 15/06 - 19/06/2020
4. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Catania, Italy, 02/07 - 05/07/2019
5. ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon), Phoenix, AZ, USA, 24/06/2019
6. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Avignon, France, 27/05 - 31/05/2019
7. IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN), Seoul, Korea, 22/10 - 25/10/2018
8. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Los Angeles, CA, USA, 25/06 - 28/06/2018
9. ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon), Irvine, CA, USA, 18/06/2018
10. IEEE International Conference on Communications (ICC), Kansas City, MO, USA, 20/05 - 24/06/2018

11. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), IIT Madras, Chennai, India, 10/07 – 14/07/2017
12. IEEE International Conference on Computer Communications (INFOCOM), Atlanta, GA, USA, 01/05 – 04/05/2017
13. ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon), Juan-les-Pins, France, 14/06/2016
14. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Paderborn, Germany, 04/07 – 08/07/2016
15. IEEE International Conference on Computer Communications (INFOCOM), San Francisco, CA, USA, 10/04 – 15/04/2016
16. IEEE International Conference on Smart Grid Communications (SmartGridComm), Miami, FL, USA, 12/11-05/11/2015
17. IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), Dallas, TX, USA, 19/10 – 22/10/2015
18. IEEE International Conference on Sensing, Communication, and Networking (SECON), Seattle, WA, USA, 22/06 – 25/06/2015
19. IEEE International Conference on Computer Communications (INFOCOM), Hong Kong, China, 26/04 – 01/05/2015
20. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Philadelphia, PA, USA, 11/08 - 14/08/2014
21. Joint Workshop on Pricing and Incentives in Networks and Systems (W-PIN+NetEcon), Austin, USA, 16/06/2014
22. IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Toronto, Canada, 02/05/2014
23. IEEE International Conference on Communications (ICC), Sydney, Australia, 10/06 – 14/06/2014
24. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Hammamet, Tunisia, 12/05 – 16/05/2014
25. IEEE International Conference on Computer Communications (INFOCOM), Toronto, Canada, 28/04 – 02/05/2014
26. IEEE Global Conference on Signal and Information Processing (GlobalSIP), Austin, Texas, USA, 03/12 - 05/12/2013
27. IEEE International Conference on Smart Grid Communications (SmartGridComm), Vancouver, Canada, 21/10 – 24/10/2013
28. IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Turin, Italy, 19/04/2013
29. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Bangalore, India, 29/07 – 01/08/2013
30. Joint Workshop on Pricing and Incentives in Networks and Systems (W-PIN+NetEcon), Pittsburgh, USA, 21/06/2013
31. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Tsukuba Science City, Japan, 13/05 – 17/05/2013
32. IEEE International Conference on Computer Communications (INFOCOM), Turin, Italy, 14/04 – 19/04/2013
33. International Conference on Network Games, Control and Optimization (NetGCooP), Paris, France, 28/11 – 30/11/2012
34. IEEE Global Communications Conference (GLOBECOM), Anaheim, California, USA, 03/12 – 07/12/2012

35. IEEE SmartGridComm 2012 Workshop - Cognitive and Machine-to-Machine Communications and Networking for Smart Grids (ComeOn), Tainan, Taiwan, 05/11 – 08/11/2012
36. The Workshop of Pricing and Incentives in Networks (W-PIN), in conjunction with the ACM SIGMETRICS/Performance, London, UK, 11/06 – 15/06/2012
37. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Hilton Head Island, South Carolina, USA, 11/06 – 14/06/2012
38. IEEE International Conference on Computer Communications (INFOCOM), Orlando, Florida, USA, 25/03 – 30/03/2012
39. Computing, Communications and Applications Conference, Hong Kong, 11/01 – 13/01/2012
40. International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Beijing, China, 16/12 – 18/12/2011
41. IEEE International Workshop on Smart Grid Communications and Networks (SG-COMNETS), Houston, Texas, USA, 05/12/2011
42. IEEE International Conference on Communications (ICC), Kyoto, Japan, 05/06 – 09/06/2011
43. Workshop on the Economics of Networks, Systems, and Computation (NetEcon), San Jose, California, USA, 06/06/2011
44. International Workshop on Game Theory in Communication Networks (GameComm), Cachan, France, 16/05/2011
45. IEEE International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Princeton, New Jersey, USA, 09/05 – 13/05/2011
46. IEEE Dynamic Spectrum Access Networks (DySPAN), Aachen, Germany, 03/05 – 06/05/2011
47. International Conference on Game Theory for Networks (GameNets), Shanghai, China, 16/04 – 18/04/2011
48. IEEE International Conference on Computer Communications (INFOCOM), Shanghai, China, 10/04 – 15/04/2011
49. International Conference on Information and Communication Technology Convergence, Jeju Island, Korea, 17/11 – 19/11/2010
50. IEEE International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Avignon, France, 31/05 – 04/06/2010
51. IEEE International Conference on Communications (ICC), Cape Town, South Africa, 23/05 – 27/05/2010
52. IEEE International Conference on Computer Communications (INFOCOM), San Diego, CA, USA, 15/03 – 19/03/2010
53. IEEE WCNIS, Beijing, China, 25/06 – 27/06/2010
54. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), New Orleans, Louisiana, 18/05 – 21/05/2009
55. IEEE International Conference on Computer Communications (INFOCOM), Rio de Janeiro, Brazil, 19/04 – 25/04/2009
56. IEEE Wireless Communications & Networking Conference (WCNC), Budapest, Hungary, 05/04 – 08/04/2009
57. IEEE Wireless Communications & Networking Conference (WCNC), Las Vegas, Nevada, USA, 31/03 – 03/04/2008
58. IEEE Global Communications Conference (GLOBECOM), Washington DC, USA, 26/11 – 30/11/2007
59. International Conference on Communications and Networking in China (ChinaCom), Shanghai, China, 22/08 – 24/08/2007
60. International Conference on Cognitive Radio Oriented Wireless Networks and Communications (CrownCom), Orlando, Florida, USA, 31/07 – 03/08/2007

61. 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

- Co-Chair, Steering Committee of IEEE Communications Society Cognitive Networks Technical Committee (TCCN), 12/2018 – 12/2020
- Chair, IEEE Communications Society Cognitive Networks Technical Committee (TCCN), 12/2016 – 12/2018
- 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

INTERNAL SERVICES AT CUHK Shenzhen

- Member, University Sub-Committee of High-Performance Computing, 06/2020 - Present
- Member, University Task Force for the Development of Computer Science Discipline, 04/2020 - Present
- Chair, Online Teaching Quality Assurance Task Force, School of Science and Engineering, Shenzhen, 02/2020 to Present
- Chair, Exam Committee, School of Science and Engineering, 01/2020 to Present
- Chair, Search Committee, School of Science and Engineering, 01/2020 to Present
- Chair, Curriculum Committee, School of Science and Engineering, 01/2020 to Present
- Associate Dean, School of Science and Engineering, 01/2019 to Present
- Member, Academic Board, School of Science and Engineering, 01/2019 to Present
- Member, Tenure Committee, School of Science and Engineering, 01/01/2019 to Present
- Member, Physics Planning Committee, School of Science and Engineering, 01/2019 to Present
- Member, Chemistry Planning Committee, School of Science and Engineering, 01/2019 to Present
- Member, Math Planning Committee, School of Science and Engineering, 01/2019 to Present
- Member, Space Planning Committee, School of Science and Engineering, 01/2019 to Present
- Co-Chair, Search Committee, School of Science and Engineering, 01/01/2019 to 12/2019
- Member, Exam Committee, School of Science and Engineering, 01/2019 to 12/2019

INTERNAL SERVICES AT CUHK

- Member, Management Committee of Shun Hing Institute of Advanced Engineering, 08/2017 - 07/2020
- Member, Review Panel for Master of Science Program of Economics, 08/2017
- Member, Faculty Board, Faculty of Engineering, 08/2015 – now
- Member, University Committee on Re-approval of Self-Financed Taught Postgraduate Programs, 10/2015 – 07/2016
- Member, Department Executive Committee, Information Engineering Department, 08/2014 – 07/2015, 08/2016 – 07/2018
- 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

- Vice President, Shenzhen Institute of Artificial Intelligence and Robotics for Society, 06/2019 - Present
- Member of PhD Dissertation Committee, School of Computing of Science, Simon Fraser University, Canada, 11/2019
- 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