

CURRICULUM VITAE

Jianwei Huang

(current version: July 1, 2022)

CAREER HIGHLIGHTS

- **Research Interests**
 - Crowd Intelligence, Network Games and Economics, Wireless Networks, Energy Networks
- **Research Outputs**
 - 7 books/monographs, 13 book chapters, 138 journal/magazine papers, 185 conference papers
 - Google Scholar citations: 14900 (H-Index: 61)
 - Thomson Reuters Highly Cited Researcher in Computer Science, 2016 & 2017
- **Selected Awards**
 - Fellow, Asia-Pacific Artificial Intelligence Association, 2022
 - Elsevier Most Cited Chinese Researchers, 2021
 - Stanford University’s list of the top 2% scientists in the world, 2019, 2020
 - “Cheung Kong Scholars Programme” Distinguished Professor, Chinese Ministry of Education, 2020
 - Guangdong Pearl River Technology Leading Talent, 2020
 - Shenzhen Pengcheng Distinguished Professor, 2019
 - IEEE Fellow, 2015 (Class of 2016, at the age of 37)
 - 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 Communication Society Asia-Pacific Outstanding Young Researcher Award, 2009
 - IEEE Marconi Prize Paper Award in Wireless Communications, 2011
 - 9 Best Paper Awards from international conferences
- **Research Funding**
 - PI of 8 Hong Kong General Research Funds and 9 Chinese mainland Research Funds
- **PhD Student and Postdoc Supervision**
 - 19 PhDs graduated, 9 PhD students ongoing
 - 16 Postdoc researchers with degrees from USA, Canada, Australia, UK, Singapore, and China
 - 19 PhD and Postdoc advisees became faculty members in leading research universities
- **Selected Professional Services**
 - Member, IEEE Koji Kobayashi Award Committee
 - Editor-in-Chief, *IEEE Transactions on Network Science and Engineering*
 - Associate Editor-in-Chief, *IEEE Open Journal of the Communications Society*
 - 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*, *IEEE Transactions on Cognitive Communications and Networking* (all JCR Q1 journals)
 - Chair, IEEE Communications Society Cognitive Networks Technical Committee
 - Chair, IEEE Communications Society Multimedia Communications Technical Committee
 - Guest editor of 10 top journal special issues
 - Conferences: 43 times as steering/organizing committee members, 62 times as TPC members (including INFOCOM 2009-2021, Mobihoc 2009/2012-2014/2016-2021)
- **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
 - Deliver 20 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

CONTACT INFOCOM

- **Name:** Jianwei HUANG
- **Employer:** School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen
- **Mailing Address:** Room TC 608, Teaching Building C, 2001 Longxiang Boulevard, Longgang District, Shenzhen, Guangdong, China, 518172
- **E-mail:** jianweihuang@cuhk.edu.cn
- **Homepage:** <https://jianwei.cuhk.edu.cn/>

RESEARCH INTERESTS

- Wireless and computer networking
- Energy and transportation networks
- Network games and economics
- Crowd intelligence and distributed machine learning

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 & Director of Master of Science** 08/2017 – 12/2018
Department of Information Engineering, The Chinese University of Hong Kong
- **(Tenured) Associate Professor & Director of Master of Science** 08/2013 – 07/2017
Department of Information Engineering, The Chinese University of Hong Kong
- **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

- **Adjunct Professor** 09/2020 – Present
Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong SAR, China
- **Guest Professor** 12/2017 – Present
School of Information Science and Engineering, Southeast University, Nanjing, Jiangsu, China
- **Visiting Professor** 10/2015 – 10/2018
School of Electronic Information and Electrical Engineering, Shanghai Jiaotong University, Shanghai, China
- **Guest Professor** 04/2012 – Present
Nanjing University of Posts and 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

AWARDS AND HONORS

- **Research Recognition and Awards**
 1. Fellow, Asia-Pacific Artificial Intelligence Association, 2022
 2. Elsevier Most Cited Chinese Researchers, 2021
 3. Shenlong High-level Talent (Category A), 2022-2026
 4. High-Level Professional in Shenzhen (National-Level), 2021-2026
 5. Longgang Distinguished Expert, 2021
 6. Stanford University's list of the top 2% scientists in the world, 2019, 2020
 7. "Cheung Kong Scholars Programme" Distinguished Professor, Chinese Ministry of Education, 2020
 8. Guangdong Pearl River Technology Leading Talent, 2020
 9. Shenzhen Pengcheng Distinguished Professor, 2019
 10. 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)
 11. Thomson Reuters 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.
 12. IEEE Communications Society Distinguished Lecturer, 2015 - 2018
 13. The Chinese University of Hong Kong Young Researcher Award, 2014
 - Only recipient from the Faculty of Engineering at CUHK
 14. 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
 15. 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
 16. Walter P. Murphy Fellowship, Northwestern University, 2001-2002
- **Best Paper Awards and Finalists**
 1. Best Paper Award, IEEE WiOpt, Virtual Conference, October 18-21, 2021

- J. He, Q. Ma, M. Zhang, and J. Huang, “Optimal Fresh Data Sampling and Trading”
- 2. Best Paper Award Finalist, IEEE SmartGridComm, Virtual Conference, November 11-13, 2020
 - D. Zhao, H. Wang, J. Huang and X. Lin, “Contract-based Time-of-use Pricing for Energy Storage Investment”
- 3. 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
- 4. Best Paper Award Finalist (top 5 of 300 accepted papers), IEEE INFOCOM, San Francisco, CA, USA, April 2016
 - H. Yu, M. Cheung, L. Gao, and J. Huang, “Economics of Public Wi-Fi Monetization and Advertising”
- 5. Best Student Paper Award (as the advisor), IEEE 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”
- 6. Best Paper Award, IEEE WiOpt, Hammamet, Tunisia, May 2014
 - Y. Luo, L. Gao, and J. Huang, “Trade Information, Not Spectrum: A Novel TV White Space Information Market Model”
- 7. Best Paper Award, IEEE WiOpt, Tsukuba Science City, Japan, May 2013
 - G. Iosifidis, L. Gao, J. Huang, and L. Tassiulas, “An Iterative Double Auction for Mobile Data Offloading”
- 8. Best Paper Award, IEEE 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”
- 9. 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
- 10. Best Paper Award, WiCON, Xi’An, China, October 2011
 - Y. Yan, J. Huang, and J. Wang, “Dynamic Bayesian Spectrum Bargaining with Non-Myopic Users”
- 11. Best Paper Award Finalist, GameNets, Shanghai, China, April 2011
 - R. Southwell and J. Huang, “Convergence Dynamics of Resource-Homogeneous Congestion Games”
- 12. 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”
- 13. Best Paper Award, APCC, 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. Editor-in-Chief, *IEEE Transactions on Network Science and Engineering* (Impact factor: 5.213, JCR Q1), 01/2021 - now
2. Associate Editor-in-Chief, *IEEE Open Journal of the Communication Society*, 07/2019 - 12/2020
3. Editor, *Journal on Communications*, China Institute of Communications, 11/2020 - now
4. Editor, *IEEE Transactions on Mobile Computing* (Impact factor: 5.112, JCR Q1), 01/2018 - 12/2020
5. Series Editor, *Wiley Information and Communication Technology Series*, 06/2017 - now
6. Editor, *IEEE Transactions on Network Science and Engineering* (Impact factor: 5.213, JCR Q1), 03/2017 - 12/2020
7. Area Editor, *Springer Encyclopedia of Wireless Networks (Area on Network Economics and pricing)*, 02/2017 - now
8. Section Editor, *Springer Handbook of Cognitive Radio (Section on Cognitive Radio Resource Management)*, 02/2016 - 06/2019
9. Editor, *IEEE/ACM Transactions on Networking* (Impact factor: 4.800, JCR Q1), 12/2016 - 12/2020
10. Founding Editor, *IEEE Transactions on Cognitive Communications and Networking* (Impact factor: 8.000, JCR Q1), 01/2015 - 12/2021
11. Editor, *IEEE Transactions on Wireless Communications* (Impact factor: 6.779, JCR Q1), 07/2010 - 06/2015
12. Founding Editor, *IEEE Journal on Selected Areas in Communications - Cognitive Radio Series* (Impact factor: 11.42, JCR Q1), 10/2011 - 12/2014
13. Associate Editor-in-Chief, *IEEE Communication Society Technology News*, 01/2014 - 04/2014
14. Editor, *IEEE Communication Society Technology News*, 11/2012 - 12/2013
15. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 11.42, JCR Q1), special issue on "Smart Data Pricing for Next Generation Networks," 2020
16. Lead Guest Editor, *IEEE Transactions on Network Science and Engineering* (Impact factor: 5.213, JCR Q1), special issue on "Economics of Modern Networks," 2019
17. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 11.42, JCR Q1), , special issue on "Game Theory for Networks," 2017
18. Guest Editor, *IEEE Transactions on Smart Grid* (Impact factor: 8.267, JCR Q1), special Issue on "Big Data Analytics for Grid Modernization," 04/2016
19. Guest Editor, *IEEE Network* (Impact factor: 8.808, JCR Q1), special issue on "Smart Data Pricing," 03/ 2016
20. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 11.42, JCR Q1), , special issue on "Economics of Communication Networks and Systems," 10/ 2012
21. Lead Guest Editor, *IEEE Communications Magazine* (Impact factor: 11.052, JCR Q1), special issue on "Communications Network Economics," 09/2012
22. Lead Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 11.42, JCR Q1), special issue on "Game Theory in Communication Systems," 09/2008
23. Associate Editor, (*Elsevier*) *Journal of Computer & Electrical Engineering*, 03/2007– 03/2010
24. Guest Editor, (*Wiley*) *Wireless Communications and Mobile Computing*, special issue on "Innovative Communications for a Better Future," 12/2010
25. Lead Guest Editor, *Journal of Communications*, special issue on "Cognitive Radio Enabled Communication and Networking," 10/2009

RESEARCH GRANTS

- Principle Investigator, Research on Carbon Trading System Based on Block-chain Technology (reference number SGTYHT/21-JS-225), Lishui Power Supply Company, State Grid Zhejiang Electric Power Co., 17/12/2021 - 31/12/2022, RMB 1,396,996
- Principle Investigator, AI-Empowered Low Carbon Systems (reference number AC01202101102), Shenzhen Institute of Artificial Intelligence and Robotics for Society, 1/11/2021 - 31/10/2022, RMB 23,400,000
- Principle Investigator, Theory and Key Technologies of Perception, Communication and Computation Fusion for 5G Edge Intelligence (reference number 2021B1515120008), Guangdong Basic and Applied Basic Research Foundation, 1/10/2021 - 30/9/2024, RMB 1,000,000
- Principle Investigator, “Multi-Agent Reinforcement Learning for Artificial General Intelligence Based on Cognitive Science and Theory of Mind” (reference number JCYJ20210324120011032), Key Project of Shenzhen Science and Technology Program, 10/08/2021 - 09/08/2024, RMB 2,000,000
- Principle Investigator, “Pricing for 5G IoT Systems,” CUHKSZ-SRIBD-Huawei Joint Research Lab, 01/03/2021 - 31/12/2022, RMB 800,000
- Principle Investigator, “Green Strategic AI” (reference number AC01202108001), Shenzhen Institute of Artificial Intelligence and Robotics for Society, 01/05/2021 - 31/10/2021, RMB 4,837,600
- Co-Investigator, 2021 Key Laboratory of Basic Theory and Methods of Big Data Computing of Guangdong Province, Science and Technology Department of Guangdong Province, 01/01/2021 - 31/12/2023, RMB 3,000,000 (personal share not determined)
- Co-Investigator, “Reinforcement learning based on federated learning” (reference number AC01202005021) Key Open Project of Shenzhen Institute of Artificial Intelligence and Robotics for Society, 01/11/2020 - 31/10/2022, RMB 2,000,000 (personal share: RMB 400,000)
- Principle Investigator, “Incentive Mechanism and Coordination Theory Design for Crowd Intelligence” (reference number 2019-INT004), Shenzhen Institute of Artificial Intelligence and Robotics for Society, 01/06/2019 - 28/02/2021, RMB 7,340,000
- Principle Investigator, “Resource Allocation and Mechanism Design for Wireless Networks” (reference number PF011001253), Residential Fund, The Chinese University of Hong Kong, Shenzhen, 01/01/2019 - 31/12/2021, RMB 4,000,000
- 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

PATENTS

- B. Luo, T. Ye, W. Xiao, J. Huang, “Method and Apparatus for Model Aggregation in Federated Reinforcement Learning,” Chinese Patent CN202210320107.9, March 2022, filed.
- B. Luo, Z. Li, J. Huang, “Method and Apparatus for Measuring Client Contribution in Federated Learning,” Chinese Patent, CN202210320107.9, May 2022, filed.
- L. Sun, S. Wang, M. Tang, L. Gao, and J. Huang, End-to-end peer video assistance transmission method, Chinese patent, CN105898550B, March 2019
- V. Subramanian, R. Agrawal, R. Berry, and J. Huang, “Method and System for Allocating Subcarriers to Subscriber Devices,” US patent, 7586990, September 2009

RESEARCH OUTPUTS

The pdf files of all book chapters, published journal papers, and published conference papers can be downloaded from <http://ncel.cuhk.edu.cn/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 student/RA/Postdoc, * denotes corresponding author)**
 - (J1) Y. Liu[†], Z. Fang, M. Cheung, W. Cai, and J. Huang*, "A Storage Sustainability Mechanism with Heterogeneous Miners in Blockchain," *IEEE Journal on Selected Areas in Communications*, accepted in July 2022
 - (J2) S. Hong[†], L. Duan, and J. Huang*, "Protecting Location Privacy by Multi-Query: A Dynamic Bayesian Game Theoretic Approach," *IEEE Transactions on Information Forensics & Security*, accepted in June 2022

- (J3) Y. Liu[†], Z. Fang, M. Cheung, W. Cai, and J. Huang*, "An Incentive Mechanism for Sustainable Blockchain Storage," *IEEE/ACM Transactions on Networking*, accepted in March 2022
- (J4) G. Liao[†], X. Chen, and J. Huang*, "Privacy-Aware Online Social Networking with Targeted Advertisement," *IEEE/ACM Transactions on Networking*, IEEE Early Access, January 2022
- (J5) D. Zhao[†], H. Wang, J. Huang*, and X. Lin, "Time-of-use Pricing for Energy Storage Investment," *IEEE Journal on Selected Areas in Communications*, IEEE Early Access, December 2021
- (J6) C. Huang[†], H. Yu, J. Huang*, and R. Berry, "Strategic Information Revelation Mechanism in Crowdsourcing Applications Without Verification," *IEEE Transactions on Mobile Computing*, IEEE Early Access, November 2021
- (J7) C. Huang[†], H. Yu, J. Huang*, and R. Berry, "Eliciting Information from Heterogeneous Mobile Crowdsourced Workers Without Verification," *IEEE Transactions on Mobile Computing*, IEEE Early Access, February 2021
- (J8) J. Yu[†], M. Cheung, and J. Huang*, "Economics of Mobile Data Trading Market," *IEEE Transactions on Mobile Computing*, IEEE Early Access, November 2020
- (J9) C. Huang[†], H. Yu, R. Berry, and J. Huang*, "Using Truth Detection to Incentivize Workers in Mobile Crowdsourcing," *IEEE Transactions on Mobile Computing*, IEEE Early Access, October 2020
- (J10) Z. Wang[†], L. Gao, and J. Huang*, "Location-Flexible Mobile Data Service in Overseas Market," *IEEE Transactions on Mobile Computing*, vol. 21, no. 2, pp. 629 - 643, February 2022
- (J11) B. Luo[†], X. Li[†], S. Wang, J. Huang*, and L. Tassiulas, "Cost-Effective Federated Learning in Mobile Edge Networks," *IEEE Journal on Selected Areas in Communications*, vol. 39, no. 12, pp. 3606 - 3621, December 2021
- (J12) Q. Ma, B. Shou*, J. Huang, and T. Basar, "Monopoly Pricing with Participation-Dependent Social Learning About Quality of Service," *Production and Operations Management* (top business journal in operations management), vol. 30, no. 11, pp. 40044022, November 2021
- (J13) A. Yu[†], X. Tang*, Y.Z. Zhang, and J. Huang, "Continuous Group-wise Double Auction for Prosumers in Distribution-level Markets," *IEEE Transactions on Smart Grid*, vol. 12, no. 6, pp. 4822 - 4833, November 2021
- (J14) M. Tang and J. Huang*, "How Do You Earn Money on Live Streaming Platforms? A Study of Donation-Based Markets," *IEEE/ACM Transactions on Networking*, vol. 29, no. 4, pp. 1813 - 1826, August 2021
- (J15) Q. Ma, J. Huang*, T. Basar, J. Liu, and X. Chen, "Reputation and Pricing Dynamics in Online Markets," *IEEE/ACM Transactions on Networking*, vol. 29, no. 4, pp. 1745 - 1759, August 2021
- (J16) N. Ding[†], Z. Fang, L. Duan, and J. Huang*, "Optimal Incentive and Load Design for Distributed Coded Machine Learning," *IEEE Journal on Selected Areas in Communications*, vol. 39, no. 7, pp. 2090 - 2104, July 2021
- (J17) M. Cheung, F. Hou, J. Huang*, and R. Southwell, "Distributed Time-Sensitive Task Selection in Mobile Crowdsensing," *IEEE Transactions on Mobile Computing*, vol. 20, no. 6, pp. 2172 - 2185, June 2021
- (J18) M. Zhang[†], A. Arafa, J. Huang*, and V. Poor, "Pricing Fresh Data," *IEEE Journal on Selected Areas in Communications*, vol. 39, no. 5, pp. 1211 - 1225, May 2021
- (J19) Q. Ma[†], E. Yeh, and J. Huang*, "Selfish Caching Games on Directed Graphs," *IEEE/ACM Transactions on Networking*, vol. 29, no. 2, pp. 709 - 722, April 2021
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- (J136) J. Huang*, R. Berry, and M.L. Honig, "Auction-based Spectrum Sharing," *Mobile Networks and Applications*, vol. 11, no. 3, pp. 405-418, June 2006 (**ESI Highly Cited Paper, IEEE ComSoc Best Readings for Economics of Cognitive Radio Systems**)
- (J137) J. Huang*, R. Berry, and M.L. Honig, "Distributed Interference Compensation for Wireless Networks," *IEEE Journal on Selected Areas in Communications*, vol. 24, no. 5, pp. 1074-1084, May 2006 (**ESI Highly Cited Paper**)
- (J138) J. Huang*, R. Berry, and M.L. Honig, "Wireless Scheduling with Hybrid ARQ," *IEEE Transactions on Wireless Communications*, vol. 4, no. 6, pp. 2801-2810, November 2005

• **Conference Publications († denotes student/RA/Postdoc)**

- [C1] C. Fan, J. Hu, and J. Huang, "Private Semi-Supervised Federated Learning," *the 31st International Joint Conference on Artificial Intelligence and the 25th European Conference on Artificial Intelligence (IJCAI-ECAI)* (acceptance rate 15%), Messe Wien, Vienna, Austria, July 23-29, 2022.
- [C2] P. Ju†, X. Lin, and J. Huang, "Distribution-Level Markets under High Renewable Energy Penetration" (**best paper award candidate**), *ACM e-Energy*, Virtual Conference, June 28 - July 1, 2022.
- [C3] M. Zhang, E. Wei, R. Berry, and J. Huang, "Age-Dependent Differential Privacy," *ACM SIGMETRICS* (acceptance rate 25%), Mumbai, India, June 6-10, 2022.
- [C4] Z. Wang, L. Gao, and J. Huang, "Socially-Optimal Mechanism Design for Incentivized Online Learning," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Virtual Conference, May 2-5, 2022.
- [C5] N. Ding†, L. Gao, J. Huang, X. Li, and X. Chen, "Optimal Pricing Under Vertical and Horizontal Interaction Structures for IoT Networks," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Virtual Conference, May 2-5, 2022.
- [C6] P. Sun†, X. Chen, G. Liao, and J. Huang, "A Profit-Maximizing Model Marketplace with Differentially Private Federated Learning," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Virtual Conference, May 2-5, 2022.
- [C7] B. Luo†, W. Xiao†, S. Wang, J. Huang, and L. Tassiulas, "Tackling System and Statistical Heterogeneity for Federated Learning with Adaptive Client Sampling," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Virtual Conference, May 2-5, 2022.
- [C8] Y. Luo†, J. Xu†, J. Chen, and J. Huang, "UAV Trajectory Planning with Network Age of Information Minimization," *IEEE WCNC*, Austin, TX, USA, April 10-13, 2022.
- [C9] S. Hong†, L. Duan, and J. Huang, "Gaining Location Privacy from Service Flexibility: A Bayesian Game Theoretic Approach," *International Conference on Privacy, Security and Trust (PST)*, Auckland, New Zealand/Virtual Conference, December 13 - 15, 2021
- [C10] L. Ruan†, L. Duan, and J. Huang, "Optimal UAV Hitching on Ground Vehicles," *IEEE Global Communications Conference (GLOBECOM)*, Madrid, Spain December 7 - 11, 2021
- [C11] Q. Huang† and J. Huang, "Towards Strategic Local Power Network Decarbonization: A Stackelberg Game Analysis," *IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids (SmartGridComm)*, Aachen, Germany, October 25-28, 2021
- [C12] C. Fan and J. Huang, "Federated Few-Shot Learning with Adversarial Learning" (invited paper), *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Philadelphia, USA, October 18-21, 2021
- [C13] Q. Lin†, L. Duan, and J. Huang, "Personalized Pricing through User Profiling in Social Networks," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Philadelphia, USA, October 18-21, 2021

- [C14] J. He[†], Q. Ma, M. Zhang, and J. Huang, "Optimal Fresh Data Sampling and Trading," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)* (**Best Paper Award**), Philadelphia, USA, October 18-21, 2021
- [C15] C. Fan and J. Huang, "Few-Shot Multi-Agent Perception," *ACM Multimedia* (acceptance rate 26%), Chendu, China, October 20-24, 2021
- [C16] G. Liao[†], Y. Su[†], J. Ziani[†], A. Wireman, and J. Huang, "The Privacy Paradox and Optimal Bias-Variance Trade-offs in Data Acquisition," *ACM Conference on Economics and Computation (EC)* (acceptance rate 26%), Budapest, Hungary, July 2021
- [C17] Q. Shao[†], M. Cheung, and J. Huang, "Crowdfunding with Strategic Pricing and Information Disclosure," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)* (acceptance rate 20%), Shanghai, China, July 2021
- [C18] C. Chen[†], Q. Ma, X. Chen, and J. Huang, "User Distributions in Shard-based Blockchain Network: Queueing Modeling, Game Analysis, and Protocol Design," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)* (acceptance rate 20%), Shanghai, China, July 2021
- [C19] X. Ouyang[†], Z. Xie[†], J. Zhou, J. Huang, and G. Xing, "ClusterFL: A Similarity-Aware Federated Learning System for Human Activity Recognition," *ACM International Conference on Mobile Systems, Applications, and Services (MobiSys)* (acceptance rate 21.7%), July 2021
- [C20] N. Ding[†], Z. Fang[†], L. Duan, and J. Huang, "Incentive Mechanism Design for Distributed Coded Machine Learning," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Virtual Conference, May 10 - May 13, 2021.
- [C21] Z. Wang[†], L. Gao, and J. Huang, "Taming Time-Varying Information Asymmetry in Fresh Status Acquisition," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Virtual Conference, May 10-13, 2021.
- [C22] C. Huang[†], H. Yu, J. Huang, and R. Berry, "Strategic Information Revelation in Crowdsourcing Systems Without Verification," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Virtual Conference, May 10-13, 2021.
- [C23] B. Luo[†], X. Li[†], S. Wang, J. Huang, and L. Tassiulas, "Cost-Effective Federated Learning Design," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Virtual Conference, May 10-13, 2021.
- [C24] D. Zhao[†], H. Wang, J. Huang and X. Lin, "Contract-based Time-of-use Pricing for Energy Storage Investment," *IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids (SmartGridComm)* (**Best Paper Award Finalist**), Virtual Conference, November 11-13, 2020
- [C25] Q. Shao[†], M. Cheung, and J. Huang, "Crowdfunding with Cognitive Limitations," *IEEE Global Communications Conference (GLOBECOM)*, Taipei, Taiwan, December 7 - 11, 2020
- [C26] N. Ding[†], Z. Fang[†], and J. Huang, "Information Disclosure Game on Sharing Platforms," *IEEE Global Communications Conference (GLOBECOM)*, Taipei, Taiwan, December 7-11, 2020
- [C27] M. Zhang[†], B. Swenson[†], J. Huang and H. V. Poor, "Truthful Mobile Crowd Sensing with Interdependent Valuations," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)* (acceptance rate 15%), virtual conference, October 11-14, 2020
- [C28] N. Ding[†], Z. Fang[†], and J. Huang, "Incentive Mechanism Design for Federated Learning with Multi-Dimensional Private Information," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Volos, Greece, June 15-19, 2020
- [C29] C. Huang[†], H. Yu[†], J. Huang, and R. Berry, "Online Crowd Learning with Heterogeneous Workers via Majority Voting," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Volos, Greece, June 15-19, 2020
- [C30] 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
- [C31] Z. Fang[†] and J. Huang, "When Reputation Meets Subsidy: How to Build High Quality On Demand Service Platforms," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Beijing, China, April 27 - April 30, 2020.
- [C32] G. Liao[†], X. Chen, and J. Huang, "Privacy Policy in Online Social Network with Targeted Advertising Business," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Beijing, China, April 27 - April 30, 2020.

- [C33] Z. Wang[†], L. Gao, and J. Huang, "Travel with Your Mobile Data Plan: A Location-Flexible Data Service," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Beijing, China, April 27 - April 30, 2020.
- [C34] C. Huang[†], H. Yu[†], J. Huang, and R. Berry, "Crowdsourcing with Heterogeneous Workers in Social Networks," *IEEE Global Communications Conference (GLOBECOM)*, Waikoloa, HI, USA, December 9 - 14, 2019
- [C35] C. Huang[†], H. Yu[†], J. Huang, and R. Berry, "Incentivizing Crowdsourced Workers via Truth Detection," *IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Ottawa, Canada, November 11 - 14, 2019
- [C36] Q. Ma[†], E. Yeh, and J. Huang, "How Bad is Selfish Caching," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)* (acceptance rate 23.7%), Catania, Italy, July 2-5, 2019
- [C37] 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
- [C38] D. Zhao[†], H. Wang[†], J. Huang, and X. Lin, "Controllable vs. Random: Renewable Generation Competition in a Local Energy Market," *IEEE International Conference on Communications (ICC)*, Shanghai, China, May 20 - 24, 2019
- [C39] 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.
- [C40] M. Tang[†] and J. Huang, "How to Earn Money in Live Streaming Platforms? A Study of Donation-Based Markets," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Paris, France, April 29 - May 2, 2019.
- [C41] Z. Wang[†], L. Gao, J. Huang, and B. Shou, "Economic Viability of Data Trading with Rollover," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 20%), Paris, France, April 29 - May 2, 2019.
- [C42] Q. Shao[†], M. Cheung, and J. Huang, "Crowdsourcing with Bounded Rationality: A Cognitive Hierarchy Perspective," *IEEE Global Communications Conference (GLOBECOM)*, Abu Dhabi, UAE, December 9 - 13, 2018
- [C43] G. Liao[†], X. Chen, and J. Huang, "Social-Aware Privacy-Preserving Correlated Data Collection," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)* (acceptance rate 16.9%), Los Angeles, CA, USA, June 26-29, 2018
- [C44] Z. Wang[†], L. Gao, and J. Huang, "Multi-Dimensional Contract Design for Mobile Data Plan with Time Flexibility," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)* (acceptance rate 16.9%), Los Angeles, CA, USA, June 26-29, 2018
- [C45] Q. Ma[†], B. Shou, J. Huang, and T. Basar, "Dynamic Pricing in the Presence of Participation-Dependent Social Learning," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)* (acceptance rate 16.9%), Los Angeles, CA, USA, June 26-29, 2018
- [C46] M. Zhang[†], J. Huang, and R. Zhang, "Wireless Power Provision as a Public Good," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Shanghai, China, May 7-11, 2018
- [C47] Z. Wang[†], L. Gao[†], and J. Huang, "Pricing Competition of Rollover Data Plan," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Shanghai, China, May 7-11, 2018
- [C48] H. Yu[†], G. Iosifidis, B. Shou, and J. Huang, "Market Your Venue with Mobile Applications: Collaboration of Online and Offline Businesses," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 21%), Honolulu, HI, USA, April 15 - 19, 2018.
- [C49] L. Gao[†] and J. Huang, "Achieving an Efficient and Fair Equilibrium Through Taxation" (invited), *Asia-Pacific Conference on Communications (APCC)*, Perth, Australia, December 11 - 13, 2017
- [C50] G. Liao[†], X. Chen, and J. Huang, "Optimal Privacy-Preserving Data Collection: A Prospect Theory Perspective," *IEEE Global Communications Conference (GLOBECOM)* (**IEEE Communications Society Young Professional Best Paper Award**), Singapore, December 4 - 8, 2017

- [C51] M. Tang[†], L. Gao[†], and J. Huang, "A General Framework for Crowdsourcing Mobile Communication, Computation, and Caching," *IEEE Global Communications Conference (GLOBECOM)*, Singapore, December 4 - 8, 2017
- [C52] S. Bahrami[†], V. Wong, and J. Huang, "Demand Response for Data Centers in Deregulated Markets: A Matching Game Approach," *IEEE International Conference on Smart Grid Communications (SmartGridComm)*, Dresden, Germany, October 23 - 26, 2017
- [C53] Z. Wang[†], L. Gao[†], and J. Huang, "A Contract-Theoretic Design of Mobile Data Plan with Time Flexibility," *ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon)*, Boston, USA, June 27, 2017
- [C54] Z. Wang[†], L. Gao[†], and J. Huang, "Pricing Optimization of Rollover Data Plan," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Paris, France, May 15 - 19, 2017
- [C55] J. Yu[†], M. Cheung[†], and J. Huang, "Economics of Mobile Data Trading Market," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Paris, France, May 15 - 19, 2017
- [C56] D. Zhao[†], H. Wang[†], J. Huang and X. Lin, "Pricing-based Energy Storage Sharing and Virtual Capacity Allocation," *IEEE International Conference on Communications (ICC) (Best Paper Award Finalist)*, Paris, France, May 21 - 25, 2017
- [C57] M. Cheung[†], F. Hou, and J. Huang, "Make a Difference: Diversity-Driven Social Mobile Crowdsensing," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 21%), Atlanta, GA, USA, May 1-4, 2017.
- [C58] M. Zhang[†], L. Gao[†], J. Huang, and M. Honig, "Cooperative and Competitive Operator Pricing for Mobile Crowdsourced Internet Access," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 21%), Atlanta, GA, USA, May 1-4, 2017.
- [C59] M. Tang[†], S. Wang[†], L. Gao[†], J. Huang, and L. Sun, "MOMD: A Multi-Object Multi-Dimensional Auction for Crowdsourced Mobile Video Streaming," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 21%), Atlanta, GA, USA, May 1-4, 2017.
- [C60] C. Jiang[†], L. Gao[†], L. Duan, and J. Huang, "Exploiting Data Reuse in Mobile Crowdsensing," *IEEE Global Communications Conference (GLOBECOM)*, Washington DC, USA, December, 2016
- [C61] Q. Ma[†], J. Huang, T. Basar, J. Liu[†], X. Chen[†], "Pricing for Sharing Economy with Reputation," *Workshop on the Economics of Networks, Systems and Computation (NetEcon)*, Juan-les-Pins, France, June 2016
- [C62] H. Yu[†], G. Iosifidis[†], J. Huang, and L. Tassiulas, "Coopetition between LTE Unlicensed and Wi-Fi: A Reverse Auction with Allocative Externalities," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Tempe, AZ, USA, May 2016
- [C63] Q. Ma[†], L. Gao[†], Y. Liu, and J. Huang, "A Contract-Based Incentive Mechanism for Crowdsourced Wireless Community Networks," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Tempe, AZ, USA, May 2016
- [C64] M. Tang[†], L. Gao[†], H. Pang[†], J. Huang, and L. Sun, "A Multi-Dimensional Auction Mechanism for Mobile Crowdsourced Video Streaming," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Tempe, AZ, USA, May 2016
- [C65] H. Pang[†], P. Wang[†], L. Gao[†], M. Tang[†], J. Huang, and L. Sun, "Crowdsourced Mobility Prediction Based on Spatio-Temporal Contexts," *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, Malaysia, June 2016
- [C66] H. Yu[†], M. Cheung[†], L. Gao[†], and J. Huang, "Economics of Public Wi-Fi Monetization and Advertising," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 18%, **Best Paper Award finalist**), San Francisco, CA, USA, April 2016
- [C67] L. Gao[†], M. Tang[†], H. Pang[†], J. Huang, and L. Sun, "Performance Bound Analysis for Crowdsourced Mobile Video Streaming," *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, USA, March 2016
- [C68] C. Jiang[†], L. Gao[†], L. Duan, and J. Huang, "Economics of Peer-to-Peer Mobile Crowdsensing," *IEEE Global Communications Conference (GLOBECOM)*, San Diego, CA, USA, December 2015
- [C69] Z. Zheng[†], L. Gao[†], L. Song, and J. Huang, "Topology Effect in Cooperative Relay Networks," *IEEE Global Communications Conference (GLOBECOM)*, San Diego, CA, USA, December, 2015

- [C70] Y. Luo[†], N. Shah[†], J. Huang, and J. Walrand, "Parametric Prediction from Parametric Agents," *Workshop on the Economics of Networks, Systems and Computation (NetEcon)* (acceptance rate 20% for the long paper), Portland, OR, USA, June 2015
- [C71] M. Cheung[†], R. Southwell[†], F. Hou, and J. Huang, "Distributed Time-Sensitive Task Selection in Mobile Crowdsensing," *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)* (acceptance rate 14.8%), Hangzhou, China, June 2015
- [C72] H. Wang[†] and J. Huang, "Bargaining-based Energy Trading Market for Interconnected Microgrids," *IEEE International Conference on Communications (ICC)*, London, UK, June 2015
- [C73] Q. Ma[†], L. Gao[†], Y. Liu, and J. Huang, "A Game-Theoretic Analysis of User Behaviors in Crowdsourced Wireless Community Networks," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)* (**Best Student Paper Award**), Mumbai, India, May 2015
- [C74] J. Yu[†], M. Cheung[†], J. Huang, and V. Poor, "Mobile Data Trading: A Behavioral Economics Perspective," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Mumbai, India, May 2015
- [C75] H. Yu[†], M. Cheung[†], and J. Huang, "Cooperative Wi-Fi Deployment: A One-to-Many Bargaining Framework," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Mumbai, India, May 2015
- [C76] S. Li, Z. Shao, and J. Huang, "ARM: Anonymous Rating Mechanism for Discrete Power Control," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Mumbai, India, May 2015
- [C77] M. Khalili[†], L. Gao[†], J. Huang, and B. Khalaj, "Incentive Design and Market Evolution of Mobile User-Provided Networks," *IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop*, Hong Kong, April 2015
- [C78] Y. Luo[†], L. Gao[†], and J. Huang, "HySIM: A Hybrid Spectrum and Information Market for TV White Space Networks," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 19%), Hong Kong, May 2015
- [C79] L. Gao[†], F. Hou, and J. Huang, "Providing Long-Term Participation Incentive in Participatory Sensing," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 19%), Hong Kong, May 2015
- [C80] H. Yu[†], M. Cheung[†], L. Huang, and J. Huang, "Predictive Delay-Aware Network Selection in Data Offloading," *IEEE Global Communications Conference (GLOBECOM)*, Houston, TX, USA, December, 2014
- [C81] H. Wang[†] and J. Huang, "Hybrid Renewable Energy Investment in Microgrid," *IEEE International Conference on Smart Grid Communications (SmartGridComm)*, Venice, Italy, November, 2014
- [C82] W. Yuan[†], J. Huang, and Y.-J. Zhang, "Competitive Charging Station Pricing for Plug-in Electric Vehicles," *IEEE International Conference on Smart Grid Communications (SmartGridComm)*, Venice, Italy, November, 2014
- [C83] Q. Ma[†], Y. Liu, and J. Huang, "Time and Location Aware Mobile Data Pricing," *IEEE International Conference on Communications (ICC)*, Sydney, Australia, June 2014
- [C84] J. Yu[†], M. Cheung[†], and J. Huang, "Spectrum Investment with Uncertainty Based on Prospect Theory," *IEEE International Conference on Communications (ICC)*, Sydney, Australia, June 2014
- [C85] Y. Luo[†], L. Gao[†], and J. Huang, "Trade Information, Not Spectrum: A Novel TV White Space Information Market Model," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)* (**Best Paper Award**), Hammamet, Tunisia, May 2014
- [C86] M. Cheung[†], F. Hou, and J. Huang, "Participation and Reporting in Participatory Sensing," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Hammamet, Tunisia, May 2014
- [C87] C. Jiang[†], L. Duan, and J. Huang, "Joint Spectrum Pricing and Admission Control for Heterogeneous Secondary Users," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Hammamet, Tunisia, May 2014
- [C88] G. Iosifidis[†], L. Gao[†], J. Huang, and L. Tassiulas, "Enabling Crowd-Sourced Mobile Internet Access," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 19%), Toronto, Canada, April - May 2014

- [C89] L. Gao[†], G. Iosifidis[†], J. Huang, and L. Tassiulas, "Hybrid Data Pricing for Network-Assisted User-Provided Connectivity," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 19%), Toronto, Canada, April - May 2014
- [C90] Y. Luo[†], L. Gao[†], and J. Huang, "Information Market for TV White Space," *IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop*, Toronto, Canada, April - May 2014
- [C91] H. Yu[†], M. Cheung[†], L. Huang, and J. Huang, "Delay-aware Predictive Network Selection in Data Offloading," *IEEE International Conference on Computer Communications (INFOCOM) Student Poster Session*, Toronto, Canada, April - May 2014
- [C92] M. Cheung[†], R. Southwell[†], and J. Huang, "Congestion-Aware Network Selection and Data Offloading," *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, USA, March 2014
- [C93] C. Wu[†], H. Akhavan-Hejazi[†], H. Mohsenian-Rad, and J. Huang, "PEV-based P-Q Control in Line Distribution Networks with High Requirement for Reactive Power Compensation," *IEEE PES Innovative Smart Grid Technologies Conference*, Washington D.C., USA, February 2014
- [C94] Y. Luo[†], L. Gao[†], and J. Huang, "White Space Ecosystem: A Secondary Network Operator's Perspective," *IEEE Global Communications Conference (GLOBECOM)*, Atlanta, USA, December 2013
- [C95] F. Hou, Z. Chen[†], J. Huang, Z. Li, and A. Katsaggelos, "Multimedia Multicast Service Provisioning in Cognitive Radio Networks," *IEEE International Wireless Communications and Mobile Computing Conference (IWCMC)*, Cagliari, Sardinia, Italy, July 2013
- [C96] H. Wang[†], J. Huang, X. Lin, and H. Mohsenian-Rad, "Exploring Smart Grid and Data Center Interactions for Electric Power Load Balancing," *ACM GreenMetrics*, Pittsburgh, PA, USA, June 2013
- [C97] B. Zhu[†], X. Chen[†], and J. Huang, "Decentralized Spatial Spectrum Access," *IEEE International Conference on Communications (ICC)*, Budapest, Hungary, June 2013
- [C98] M. Cheung[†] and J. Huang, "Optimal Delayed Wi-Fi Offloading," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Tsukuba Science City, Japan, May 2013
- [C99] G. Iosifidis[†], L. Gao[†], J. Huang, and L. Tassiulas, "An Iterative Double Auction for Mobile Data Offloading," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt) (Best Paper Award)*, Tsukuba Science City, Japan, May 2013
- [C100] L. Gao[†], G. Iosifidis[†], J. Huang, and L. Tassiulas, "Economics of Mobile Data Offload," *IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop*, Turin, Italy, April 2013
- [C101] L. Duan[†], J. Huang, and J. Walrand, "Economic Analysis of 4G Network Upgrade," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 17%), Turin, Italy, April 2013
- [C102] L. Duan[†], J. Huang, and B. Shou, "Optimal Pricing for Local and Global WiFi Markets," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 17%), Turin, Italy, April 2013
- [C103] Y. Chen[†], L. Duan[†], J. Huang, and Q. Zhang, "Balance of revenue and social welfare in FCC's spectrum allocation," *IEEE International Conference on Computer Communications (INFOCOM)* (acceptance rate 17%), Turin, Italy, April 2013
- [C104] R. Southwell[†], X. Chen[†], and J. Huang, "Quality of Service Satisfaction Games for Spectrum Sharing," *IEEE International Conference on Computer Communications (INFOCOM) - Mini Conference*, Turin, Italy, April 2013
- [C105] Y. Xiao[†], J. Huang, C. Yuen, and L.A. Dasilva, "Fairness and Efficiency Tradeoffs for User Cooperation in Distributed Wireless Networks," *IEEE International Conference on Computer Communications (INFOCOM) - Mini Conference*, Turin, Italy, April 2013
- [C106] Y. Luo[†], L. Gao[†], and J. Huang, "Spectrum Broker by Geo-location Database," *IEEE Global Communications Conference (GLOBECOM)*, Anaheim, USA, December 2012
- [C107] S. Gong[†], X. Chen[†], J. Huang, and P. Wang, "On-Demand Spectrum Sharing By Flexible Time-Slotted Cognitive Radio Networks," *IEEE Global Communications Conference (GLOBECOM)*, Anaheim, USA, December 2012
- [C108] C. Wu[†], H. Mohsenian-Rad, and J. Huang, "PEV-based Reactive Power Compensation for Wind DG Units: A Stackelberg Game Approach," *IEEE International Conference on Smart Grid Communications (SmartGridComm) (Best Paper Award)*, Tainan City, Taiwan, November 2012

- [C109] K. Sugiyama, T. Kubo, L. Duan[†], A. Tagami, T. Hasegawa, and J. Huang, "Incentive Mechanisms for Secure Smartphone Collaboration" (Poster), *Conference on Decision and Game Theory for Security (GameSec)*, Budapest, Hungary, November 2012
- [C110] R. Southwell[†], J. Huang, and B. Shou, "Physical Interference Model Based Spectrum Sharing with Generalized Spatial Congestion Games" (invited), *IEEE International Conference on Communication Systems (ICCS)*, Singapore, November 2012
- [C111] L. Duan[†], J. Huang, and B. Shou, "Femtocell Service Provision with Dual Channel Competition" (invited), *ITC'24 Workshop on Telecom Economics, Engineering and Policy*, Krakow, Poland, September 2012
- [C112] 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
- [C113] X. Chen[†] and J. Huang, "Game Theoretic Analysis of Distributed Spectrum Sharing With Database," *IEEE International Conference on Distributed Computing Systems (ICDCS)* (acceptance rate: 13%), Macau, China, June 2012
- [C114] S. Li[†], J. Huang, and S.Y. Li, "Profit Maximization of Cognitive Virtual Network Operator in A Dynamic Wireless Network," *IEEE International Conference on Communications (ICC)*, Ottawa, Canada, June 2012
- [C115] R. Southwell[†], Y. Chen[†], J. Huang, and Q. Zhang, "Convergence Dynamics of Graphical Congestion Games," *International Conference on Game Theory for Networks (GameNets)*, Vancouver, Canada, May 2012
- [C116] L. Law[†], F. Hou, and J. Huang, "Partial Cooperation for Spectrum Sharing in Cognitive Radio Network" (invited), *International Workshop on Resource Allocation and Cooperation in Wireless Networks (in conjunction with WiOpt)*, Paderborn, Germany, May 2012
- [C117] X. Chen[†] and J. Huang, "Imitative Spectrum Access," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Paderborn, Germany, May 2012
- [C118] 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
- [C119] 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
- [C120] 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
- [C121] 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
- [C122] L. Gao[†], J. Huang, Y.J. Chen, and B. Shou, "ContraAuction: An Integrated Design of Contract and Auction for Dynamic Spectrum Sharing," *Conference on Information Sciences and Systems (CISS)*, Princeton, NJ, USA, March 2012
- [C123] 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
- [C124] 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
- [C125] 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
- [C126] X. Chen[†] and J. Huang, "Evolutionarily Stable Open Spectrum Access in a Many-Users Regime," *IEEE Global Communications Conference (GLOBECOM)*, Houston, USA, December 2011
- [C127] 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

- [C128] 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
- [C129] 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
- [C130] 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
- [C131] 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
- [C132] K. Leung[†] and J. Huang, "Regulating Wireless Access Pricing," *IEEE International Conference on Communications (ICC)*, Kyoto, Japan, June 2011
- [C133] 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
- [C134] X. Chen[†], J. Huang, and H. Li, "Adaptive Channel Recommendation for Dynamic Spectrum Access," *IEEE Dynamic Spectrum Access Networks (DySPAN)*, Aachen, Germany, May 2011
- [C135] L. Duan[†], L. Gao[†], and J. Huang, "Contract-based Cooperative Spectrum Sharing," *IEEE Dynamic Spectrum Access Networks (DySPAN)*, Aachen, Germany, May 2011
- [C136] 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
- [C137] 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
- [C138] 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
- [C139] L. Duan[†] and J. Huang, "Economic Viability of Femtocell Service Provision" (invited), *International Conference on Game Theory for Networks (GameNets)*, Shanghai, China, April 2011
- [C140] 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
- [C141] 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
- [C142] 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
- [C143] 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
- [C144] 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
- [C145] L. Duan[†], J. Huang, and B. Shou, "Competition with Dynamic Spectrum Leasing," *IEEE Dynamic Spectrum Access Networks (DySPAN)*, Singapore, April, 2010
- [C146] 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
- [C147] 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

- [C148] 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
- [C149] 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
- [C150] J. Huang, "Distributed Algorithm Design for Network Optimization Problems with Coupled Objectives" (invited), *IEEE TENCON*, Singapore, November 2009
- [C151] 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
- [C152] 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
- [C153] 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
- [C154] 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
- [C155] 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
- [C156] 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
- [C157] 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
- [C158] 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
- [C159] 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
- [C160] 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
- [C161] 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
- [C162] 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
- [C163] 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
- [C164] 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
- [C165] 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
- [C166] 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

- [C167] 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
- [C168] 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
- [C169] 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
- [C170] 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
- [C171] 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)
- [C172] 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
- [C173] 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
- [C174] 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
- [C175] 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
- [C176] 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
- [C177] 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
- [C178] 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
- [C179] 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
- [C180] 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
- [C181] 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
- [C182] 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
- [C183] 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
- [C184] 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
- [C185] 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 and Department Chair 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 a 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 tenure-track Assistant Professor at CUHK Shenzhen, 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 Lecturer in Monash University (Australia)

8. Haoran Yu: thesis title "Optimization and Economic Analysis of Wi-Fi Networks," PhD defense at CUHK 08/2016, currently an 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 an Associate Professor at Sun Yat-Sen University (China), 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, currently a senior engineer at Ant Financial and Alipay (China)
12. Ming Tang: thesis title "Optimizations and Economics of Multimedia Services," **Hong Kong PhD Fellow**, PhD defense at CUHK 09/2018, currently an Assistant Professor at Southern University of Science and Technology (China)
13. Zhiyuan Wang: thesis topic "Economics of Mobile Data Pricing," **Hong Kong PhD Fellow**, PhD defense at CUHK 08/2019, currently an Associate Professor at Beihang University (China)
14. Meng Zhang: thesis title "Network Sharing Economy: Pricing and Mechanism Design," PhD defense at CUHK 09/2019, currently an Assistant Professor at Zhejiang University-UIUC Joint institute (China)
15. Dongwei Zhao (CUHK): thesis topic "Economic Mechanism Design for Smart Grid Storage Systems," PhD defense at CUHK 04/2021, currently a Postdoc Fellow at MIT (USA)
16. Guocheng Liao (CUHK): thesis topic "Optimization and Economics of Privacy-Preserving Mechanisms in Data Acquisition", PhD defense at CUHK 04/2021, currently a tenure-track Assistant Professor at Sun Yat-Sen University (China)
17. Chao Huang (CUHK): thesis topic "Incentive Mechanism Design for Crowdsourcing Systems Without Verification," PhD defense at CUHK 06/2021, currently a Postdoc Fellow at University of California, Davis (USA)
18. Ningning Ding (CUHK): thesis topic "Economics of Network Resource Sharing," PhD defense at CUHK 06/2022, currently a Postdoc Fellow at Northwestern University (USA)
19. Qi Shao (CUHK): thesis topic "Optimizations and Economics in Crowd Systems," **Hong Kong PhD Fellow**, PhD defense at CUHK 06/2022, currently a Postdoc Fellow at CUHK (China)

- **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. Qi Shao (CUHK): thesis topic "Behavior Economics of Crowd Sourcing", **Hong Kong PhD Fellow**, starting 08/2017
2. Yunshu Liu (CUHK): thesis topic "Economics of Blockchain", starting 08/2018 (co-supervision with Prof. Man Hon Cheung)
3. Xiaomin Ouyang (CUHK): thesis topic "Multi-Task Federated Learning", starting 08/2019 (co-supervision with Prof. Guoliang Xing)
4. Qinqi Lin (CUHK Shenzhen): thesis topic "Privacy Preserving Data Pricing", starting 01/2020
5. Xiang Li (CUHK Shenzhen): thesis topic TBD, starting 08/2020
6. Yifan Luo (CUHK Shenzhen): thesis topic TBD, starting 08/2020
7. Junyi He (CUHK Shenzhen): thesis topic TBD, starting 08/2020

8. Wentao Ye (CUHK Shenzhen): thesis topic TBD, starting 08/2021
9. Kexin Chen (CUHK Shenzhen): thesis topic TBD, starting 08/2021
10. Ruichen Xu (CUHK): thesis topic TBD, starting 08/2021

● **Post-doctoral Researchers**

1. Pengchao Han, Ph.D. from Northeastern University (China), postdoc at CUHK Shenzhen, starting 09/2021
2. Dr. Peng Sun, Ph.D. from Zhejiang University (China), postdoc at CUHK Shenzhen, starting 11/2020
3. Dr. Jin Xu, Ph.D. from Texas A&M (USA), postdoc at CUHK Shenzhen, starting 09/2020
4. Dr. Qisheng Huang, Ph.D. from Singapore University of Technology and Design (Singapore), postdoc at CUHK Shenzhen, starting 08/2020
5. Dr. Junling Li, Ph.D. from University of Waterloo (Canada), joint postdoc at CUHK Shenzhen & AIRS, starting 05/2020
6. Dr. Lihua Ruan, Ph.D. from University of Melbourne (Australia), postdoc at CUHK Shenzhen, starting 12/2019
7. Dr. Bing Luo, Ph.D. from University of Melbourne (Australia), postdoc at CUHK Shenzhen, starting 10/2019
8. Dr. Yunpeng Li, Ph.D. from Singapore University of Technology and Design (Singapore), postdoc at CUHK Shenzhen, 08/2019 - 07/2020
9. Dr. Zhixuan Fang, Ph.D. from Tsinghua University (China), postdoc at CUHK 08/2018 - 08/2020, currently an Assistant Professor at Tsinghua University
10. Dr. Yanru Zhang, Ph.D. from University of Houston (USA), postdoc at CUHK 03/2017 – 06/2018, currently an Assistant Professor at the University of Electronic Science and Technology of China
11. 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 an Assistant Professor at City University of Hong Kong
12. 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**
13. Dr. Richard Southwell: Ph.D. from Sheffield University (UK), postdoc at CUHK 09/2010 – 12/2014, first job Assistant Professor at Tsinghua University (China)
14. 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)
15. Dr. Fen Hou: Ph.D. from University of Waterloo (Canada), postdoc at CUHK during 08/2009 – 03/2011, currently an Associate Professor at University of Macau, recipient of **IEEE GLOBECOM 2010 Best Paper Award**
16. 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 1 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.
- 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.cuhk.edu.cn/Files/UPN-Tutorial.pdf>
 - IEEE GLOBECOM, San Diego, CA, USA, 06/12/2015
- Economics of TV White Space Networks: <http://jianwei.cuhk.edu.cn/Files/TV-Tutorial.pdf>
 - IEEE DySPAN, Baltimore, USA, 03/06/2017
 - IEEE ICC, Shenzhen, China, 02/11/2015
- Mobile Data Offloading: <http://jianwei.cuhk.edu.cn/Files/MDO-Tutorial.pdf>
 - IEEE ICC, London, UK, 12/06/2015

Table 1: Summary of Course Evaluations

Year	Term	Course	Title (Undergraduate/Graduate)	Class Size	Mean (Dept. Mean)
2020/2021	1	CIE6036	Network Economics (G)	101	5.94 (5.63)
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)

– IEEE ICC, Sydney, Australia, 10/06/2014

- Wireless Network Economics and Games:

<http://jianwei.cuhk.edu.cn/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

1. "Incentive Mechanism Design for Crowd Systems," International Conference on Future Computer and Communication (ICFCC 2022), Singapore, 19/02/2022
2. "Incentive Mechanism Design for Crowd Systems," IEEE International Conference on Computing, Communication, and Automation (ICCCA), virtual conference, 18/12/2021
3. "Incentive Mechanism Design for Crowd Systems," Forum of Network Economics and Games, virtual conference, 13/11/2021
4. "Incentive Mechanism Design for Crowd Systems," IEEE International Conference on Trust, Security, and Privacy in Computing and Communications (TrustComm), virtual conference, 20/10/2021
5. "Incentive Mechanism Design for Crowd Systems," Symposium on Frontier Advances of Network and Information Security, China Computer Federation (CCF) Nanjing Chapter, virtual conference, 28/08/2021
6. "Incentive Mechanism Design for Crowd Systems," IEEE International Conference on Smart Internet of Things (SmartIoT), virtual conference, 13/08/2021
7. "Optimization and Incentive Mechanism Design for Federated Learning," Workshop on Machine-Learning-Aided Social Networks, ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Shanghai, China, 26/07/2021
8. "Incentive Mechanism Design for Crowd Systems," The 3rd International Workshop on Advanced intelligent and Ad Hoc Networks, Xi'An, China, 21/11/2020
9. "Eliciting Information Via Crowd Intelligence," International Workshop of High-Fidelity Internet of Things Workshop, Shandong University, Qingdao, China, 27/10/2019
10. "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
11. "Economics of Mobile Crowdsensing," Annual ShanghaiTech Symposium on Information Science and Technology (ASSIST), 01/07/2019
12. "Economics of Mobile Crowdsensing," UESTC Workshop on Information Engineering, 14/06/2019
13. "Achieving Efficient and Fair Equilibria Through Taxation," Asia-Pacific Conference on Communications, Perth, Australia, 11/12/2017
14. "Renewable Energy Investment and Operation in Microgrids," IEEE International Conference on Smart Grid Communications (SmartGridComm), Dresden, Germany, 25/10/2017
15. "Communication Network Economics," Workshop on Computing, Communications, and Caching, China Institute of Communications, Chongqing, China, 23/09/2017
16. "Communication Network Economics," 2016 Shannon Workshop, Shanghai Jiaotong University, Shanghai, China, 14/12/2016
17. "Incentive Mechanisms for User-Provided Networks," International Conference on Networking and Network Applications, Hakodate City, Hokkaido, Japan, 24/07/2016
18. "Crowdsourced Mobile Video Streaming," International Symposium on Network Economics and Big Data, Beijing, China, 09/07/2016
19. "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
20. "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

- “My Recent Experiences as Editor-in-Chief”
 - Department of Computing, The Hong Kong Polytechnic University, 28/12/2021
- “Intelligent Low-Carbon Systems: Frontier Theory and Key Technology”
 - Forum on Green Low-Carbon AI Technology and Application, China National Computer Congress (CNCC), Shenzhen, China, 16/12/2021
 - Green Low-Carbon and Carbon Neural Summit, Global AI and Robotics Summit (CCF-GAIR), Shenzhen, China, 11/12/2021
- “Incentive Mechanism Design for Federated Learning”
 - Forum on Multi-Task Multi-Agent Reinforcement Learning Technology and Innovations, China National Computer Congress, Shenzhen, China, 17/12/2021
 - John Hopcroft Center, Shanghai Jiaotong University, 01/06/2021
 - IEEE Winter School on Fog/Edge Computing, 29/11/2020
- “Incentive Mechanism Design for Crowd Systems”
 - School of Computer Science, Zhejiang University, 16/01/2022
 - Data Sharing and Intelligent Application Forum, Jiangsu AI Conference, 28/12/2021
 - Workshop on Edge and Fog Computing, IEEE World Forum on IoT, 22/06/2021
 - Graduate School, Huazhong University of Science and Technology, Wuhan, China, 02/11/2020
 - Crowd Intelligence Research Series Opening Seminar, Shenzhen Institute of Artificial Intelligence and Robotics for Society, Shenzhen, China, 28/10/2020
- “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. Track Co-Chair (Digital Economics), Industry Forum, IEEE World Forum on IoT (WF-IoT), Japan, 11/2022.
 2. Track Co-Chair (EconCS), International Joint Conference on Theoretical Computer Science (IJTCS), Hong Kong, 07/2022
 3. Chair, Forum on Multi-Task Multi-Agent Reinforcement Learning Technology and Innovations, China National Computer Congress, Shenzhen, China, 17/12/2021
 4. Co-Chair, Forum on Service-Oriented Crowd Intelligent Computation and Decision, China National Computer Congress, Shenzhen, China, 16/12/2021
 5. Steering Committee Member, IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids (SmartGridComm), 11/2021 - Present
 6. Steering Committee Member, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), 09/2018 - Present
 7. General Chair, Guangdong-Hong Kong-Macau Conference on Intelligent Networks and Communications Systems, Shenzhen, China, 26/10-27/10/2021
 8. Technical Program Committee Co-Chair, International Teletraffic Congress (ITC), Avignon, France, 31/08-03/09, 2021
 9. Technical Program Committee Co-Chair, IEEE/CIC International Conference on Communications in China (ICCC 2021), Xiamen, China, 28/07 - 30/07, 2021
 10. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Vancouver, Canada, 10/05 – 13/05/2021
 11. Technical Program Committee Co-Chair, IEEE International Conference on Communications (ICC), Dublin, Ireland, 07/06 – 11/06/2020
 12. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Beijing, China, 27/04 – 30/04/2020
 13. Technical Program Committee Track Co-Chair (MAC and Cross-Layer Design), IEEE Wireless Communications and Networking Conference (WCNC), 04/04 – 09/04/2020
 14. General Chair, International Conference on Intelligent Networks and Communications Systems, Shenzhen, China, 11/01-12/01/2020
 15. 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
 16. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Paris, France, 29/04 – 02/05/2019
 17. Technical Program Committee Co-Chair, International Conference on NETwork Games, CONTROL and OPTimization (NetGCoop), New York, NY, USA, 15/11-16/11/2018

18. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Honolulu, HI, USA, 15/04 – 19/04/2018
19. General Co-Chair, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Shanghai, China, 7/05 – 11/05/2018
20. Technical Program Committee Co-Chair, Symposium on Cognitive Radio and Networks, IEEE Global Communications Conference (GLOBECOM), 04/12 - 10/12/2017
21. General Co-Chair, CUHK Fog Computing and Communications Workshop, Hong Kong, 09/2017
22. Technical Program Committee Co-Chair, Area of Wireless Networks and Applications, 29th International Teletraffic Congress (ITC), Genoa, Italy, 09/2017
23. 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
24. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Atlanta, GA, USA, 01/05/2017
25. 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
26. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, San Francisco, CA, USA, 11/04/2016
27. Technical Program Committee Co-Chair, Symposium of Wireless Communications Systems, IEEE International Conference on Communications in China (ICCC), 02/11 - 04/11/2015
28. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Hong Kong, China, 26/04/2015
29. Local Arrangement Co-Chair, IEEE International Conference on Computer Communications (INFOCOM), Hong Kong, China, 26/04 – 01/05/2015
30. Steering Committee Member, IEEE International Conference on Multimedia & Expo (ICME), 06/2012 – 06/2014
31. Advisory Committee Member, International Conferences on Signal Processing and Communication Systems (ICSPCS), Gold Coast, Australia, 16/12 - 18/12/2013
32. Technical Program Committee Co-Chair, International Conference on NETWORK Games, CONTROL and OPTimization (NetGCoop), Trento, Italy, 29/10-31/10/2014
33. 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
34. Steering Committee Member, International Workshop on Green Cognitive Communications and Computing Networks (co-located with IEEE INFOCOM), Toronto, Canada, 27/04 - 02/05/2014
35. Publicity Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Toronto, Canada, 02/05/2014
36. 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
37. Special Session Organizer, “Game Theory for Wireless Networks”, International Conference on Algorithms, Systems, and Applications of Wireless Networks (WASA), 08/08 – 08/10/2013
38. 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
39. Publicity Co-Chair, IEEE Communication Theory Workshop (CTW), Maui, Hawaii, USA, 14/05 – 16/05/2012
40. 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
41. 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

42. Special Session Organizer, "Economics of Dynamic Spectrum Management," IEEE Dynamic Spectrum Access Networks (DySPAN), Aachen, Germany, 03/05 – 06/05/2011
43. Special Session Organizer, "Wireless Networking Games," International Conference on Game Theory for Networks (GameNets), Shanghai, China, 16/04 – 18/04/2011
44. Technical Program Committee Co-Chair, Wireless Communications Symposium, IEEE Global Communications Conference (GLOBECOM), Miami, Florida, USA, 06/12 – 10/12/2010
45. Technical Program Committee Co-Chair, Mobile Computing Symposium, ACM International Wireless Communications and Mobile Computing Conference (IWCMC), Caen, France, 28/06 – 02/07/2010
46. Technical Program Committee Co-Chair, International Conference on Game Theory for Networks (GameNets), Istanbul, Turkey, 13/05 – 15/05/2009
47. Special Session Organizer, "Collaboration and Optimization of Multimedia Communications," International Symposium on Multimedia over Wireless (ISMW), Honolulu, HI, USA, 12/08 – 16/08/2007
48. 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), Shanghai, China, 26/07 – 28/07/2021
2. ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon), Budapest, Hungary 17/07/2020
3. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Shanghai, China, 30/06 – 03/07/2020
4. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Volos, Greece, 15/06 – 19/06/2020
5. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Catania, Italy, 02/07 – 05/07/2019
6. ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon), Phoenix, AZ, USA, 24/06/2019
7. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Avignon, France, 27/05 – 31/05/2019
8. IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN), Seoul, Korea, 22/10 – 25/10/2018
9. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Los Angeles, CA, USA, 25/06 – 28/06/2018
10. ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon), Irvine, CA, USA, 18/06/2018
11. IEEE International Conference on Communications (ICC), Kansas City, MO, USA, 20/05 – 24/06/2018
12. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), IIT Madras, Chennai, India, 10/07 – 14/07/2017
13. IEEE International Conference on Computer Communications (INFOCOM), Atlanta, GA, USA, 01/05 – 04/05/2017
14. ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon), Juan-les-Pins, France, 14/06/2016
15. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Paderborn, Germany, 04/07 – 08/07/2016
16. IEEE International Conference on Computer Communications (INFOCOM), San Francisco, CA, USA, 10/04 – 15/04/2016

17. IEEE International Conference on Smart Grid Communications (SmartGridComm), Miami, FL, USA, 12/11-05/11/2015
18. IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), Dallas, TX, USA, 19/10 – 22/10/2015
19. IEEE International Conference on Sensing, Communication, and Networking (SECON), Seattle, WA, USA, 22/06 – 25/06/2015
20. IEEE International Conference on Computer Communications (INFOCOM), Hong Kong, China, 26/04 – 01/05/2015
21. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Philadelphia, PA, USA, 11/08 - 14/08/2014
22. Joint Workshop on Pricing and Incentives in Networks and Systems (W-PIN+NetEcon), Austin, USA, 16/06/2014
23. IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Toronto, Canada, 02/05/2014
24. IEEE International Conference on Communications (ICC), Sydney, Australia, 10/06 – 14/06/2014
25. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Hammamet, Tunisia, 12/05 – 16/05/2014
26. IEEE International Conference on Computer Communications (INFOCOM), Toronto, Canada, 28/04 – 02/05/2014
27. IEEE Global Conference on Signal and Information Processing (GlobalSIP), Austin, Texas, USA, 03/12 - 05/12/2013
28. IEEE International Conference on Smart Grid Communications (SmartGridComm), Vancouver, Canada, 21/10 – 24/10/2013
29. IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Turin, Italy, 19/04/2013
30. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Bangalore, India, 29/07 – 01/08/2013
31. Joint Workshop on Pricing and Incentives in Networks and Systems (W-PIN+NetEcon), Pittsburgh, USA, 21/06/2013
32. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Tsukuba Science City, Japan, 13/05 – 17/05/2013
33. IEEE International Conference on Computer Communications (INFOCOM), Turin, Italy, 14/04 – 19/04/2013
34. International Conference on Network Games, Control and Optimization (NetGCooP), Paris, France, 28/11 – 30/11/2012
35. IEEE Global Communications Conference (GLOBECOM), Anaheim, California, USA, 03/12 – 07/12/2012
36. IEEE SmartGridComm 2012 Workshop - Cognitive and Machine-to-Machine Communications and Networking for Smart Grids (ComeOn), Tainan, Taiwan, 05/11 – 08/11/2012
37. The Workshop of Pricing and Incentives in Networks (W-PIN), in conjunction with the ACM SIGMETRICS/Performance, London, UK, 11/06 – 15/06/2012
38. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Hilton Head Island, South Carolina, USA, 11/06 – 14/06/2012
39. IEEE International Conference on Computer Communications (INFOCOM), Orlando, Florida, USA, 25/03 – 30/03/2012
40. Computing, Communications and Applications Conference, Hong Kong, 11/01 – 13/01/2012
41. International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Beijing, China, 16/12 – 18/12/2011

42. IEEE International Workshop on Smart Grid Communications and Networks (SG-COMNETS), Houston, Texas, USA, 05/12/2011
43. IEEE International Conference on Communications (ICC), Kyoto, Japan, 05/06 – 09/06/2011
44. Workshop on the Economics of Networks, Systems, and Computation (NetEcon), San Jose, California, USA, 06/06/2011
45. International Workshop on Game Theory in Communication Networks (GameComm), Cachan, France, 16/05/2011
46. IEEE International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Princeton, New Jersey, USA, 09/05 – 13/05/2011
47. IEEE Dynamic Spectrum Access Networks (DySPAN), Aachen, Germany, 03/05 – 06/05/2011
48. International Conference on Game Theory for Networks (GameNets), Shanghai, China, 16/04 – 18/04/2011
49. IEEE International Conference on Computer Communications (INFOCOM), Shanghai, China, 10/04 – 15/04/2011
50. International Conference on Information and Communication Technology Convergence, Jeju Island, Korea, 17/11 – 19/11/2010
51. IEEE International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Avignon, France, 31/05 – 04/06/2010
52. IEEE International Conference on Communications (ICC), Cape Town, South Africa, 23/05 – 27/05/2010
53. IEEE International Conference on Computer Communications (INFOCOM), San Diego, CA, USA, 15/03 – 19/03/2010
54. IEEE WCNIS, Beijing, China, 25/06 – 27/06/2010
55. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), New Orleans, Louisiana, 18/05 – 21/05/2009
56. IEEE International Conference on Computer Communications (INFOCOM), Rio de Janeiro, Brazil, 19/04 – 25/04/2009
57. IEEE Wireless Communications & Networking Conference (WCNC), Budapest, Hungary, 05/04 – 08/04/2009
58. IEEE Wireless Communications & Networking Conference (WCNC), Las Vegas, Nevada, USA, 31/03 – 03/04/2008
59. IEEE Global Communications Conference (GLOBECOM), Washington DC, USA, 26/11 – 30/11/2007
60. International Conference on Communications and Networking in China (ChinaCom), Shanghai, China, 22/08 – 24/08/2007
61. International Conference on Cognitive Radio Oriented Wireless Networks and Communications (CrownCom), Orlando, Florida, USA, 31/07 – 03/08/2007
62. IEEE Consumer Communications and Networking Conference (CCNC), Las Vegas, Nevada, USA, 11/01 – 13/01/2007

- **Funding Proposal Reviewer**

1. European Research Council
2. The Natural Sciences and Engineering Research Council of Canada
3. Hong Kong Research Grant Council
4. Royal Society of New Zealand
5. 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, Area Executive Committee (AEC) of CE-NSE-ME-BME Programs, 02/2022 to Present
- Member, University Joint Committee for Education, 10/2021 to Present
- Member, University Steering Committee for Computer Science and Computer Engineering, 10/2021 to Present
- Member, University Academic Personnel Committee, 09/2021 to Present
- Member, School Executive Committee, School of Science and Engineering, 07/2021 to Present
- Member, School Award Committee, School of Science and Engineering, 07/2021 to Present

- Member, University Undergraduate Examinations Board, 07/2021 to Present
- Member, Assembly of Fellows, Muse College, 09/2020 to Present
- Member, University Task Force for the Development of Computer Science Discipline, 04/2020 to Present
- Chair, School Online Teaching Quality Assurance Task Force, School of Science and Engineering, Shenzhen, 02/2020 to Present
- Chair, School Exam Committee, School of Science and Engineering, 01/2020 to Present
- Chair, School Curriculum Committee, School of Science and Engineering, 01/2020 to Present
- Member, University Task Force on Collaboration between CUHK and CUHKSZ, 01/2021 to Present
- Member, University Sub-Committee of High-Performance Computing, 06/2020 to Present
- Member, School Academic Board, School of Science and Engineering, 01/2019 to Present
- Member, School Tenure Committee, School of Science and Engineering, 01/2019 to Present
- Associate Dean (Education), School of Science and Engineering, 01/2019 to Present
- Member, School Space Planning Committee, School of Science and Engineering, 01/2019 to Present
- Member, School Search Committee, School of Science and Engineering, 07/2021 to 09/2021
- Co-Chair, School Search Sub-Committee in Electrical Engineering and Computer Engineering, 01/2021 to 06/2021
- Member, University Ad Hoc Review Committee on Student Appeal, 01/2021 to 03/2021
- Member, University Interview Panel for Special Student Admission, 09/2020 to 12/2020
- Member, University Ad Hoc Committee on Postgraduate Funding Model, 09/2020 to 08/2021
- Chair, School Search Committee, School of Science and Engineering, 01/2020 to 12/2020
- Co-Chair, School Search Committee, School of Science and Engineering, 01/2019 to 12/2019
- Member, School Exam Committee, School of Science and Engineering, 01/2019 to 12/2019
- Member, University Physics Planning Committee, School of Science and Engineering, 01/2019 to 12/2021
- Member, University Chemistry Planning Committee, School of Science and Engineering, 01/2019 to 12/2021
- Member, University Math Planning Committee, School of Science and Engineering, 01/2019 to 12/2021

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

- Member, Advisory Board, IEEE Communications Society Fog/Edge Industry Community, 01/2022 - Present
- Reviewer, Guangdong Zhujiang Talent Team Program, 10/2021
- Member, IEEE Koji Kobayashi Award Committee, 05/2021 - 04/2022
- Member, Promotion and Popularization Committee, Internet Society of China, 11/2020 - Present
- 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