

# CURRICULUM VITAE

**Jianwei Huang**

(Updated: April 23, 2018)

## CAREER SUMMARY

### • Research Outputs

- 6 books, 12 book chapters, 100 journal/magazine papers, 143 conference papers
- Google Scholar citations: 9093 (H-Index: 47), SCI citations: 3921 (H-index: 30)

### • Research Awards

- Thomson Reuters/Clarivate Analytics Highly Cited Researcher in Computer Science, 2016 & 2017
- IEEE Fellow, 2016
- IEEE Communications Society Distinguished Lecturer, 2015 – 2018
- Shanghai Thousand Talents Expert Award, 2015 – 2018
- The Chinese University of Hong Kong Young Researcher Award, 2014
- IEEE Communications Society Young Professional Best Paper Award (as the advisor), 2017
- IEEE WiOPT Best Student Paper Award (as the advisor), 2015
- IEEE WiOPT Best Paper Awards, 2013 & 2014
- IEEE SmartGridComm Best Paper Award, 2012
- IEEE Marconi Prize Paper Award in Wireless Communications, 2011
- WiCON Best Paper Award, 2011
- IEEE GLOBECOM Best Paper Award, 2010
- APCC Best Paper Award, 2009
- IEEE Communication Society Asia-Pacific Outstanding Young Researcher Award, 2009

### • Service Awards

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

### • Research Funding

- PI of 8 Hong Kong General Research Funds (successful rate 8/10), total HK\$5.9 Millions
- Co-I of 4 projects (including one AoE and one Theme-based projects), total HK\$200 Millions

### • Students and Postdoc Supervision

- Graduate students: 11 PhDs and 3 Masters graduated, 7 PhD students ongoing
- Visiting students: 18 (from Canada, Switzerland, Greece, Singapore, India, Iran, and China)
- Postdocs Researchers: 7 (PhD degrees from US, Canada, UK, Hong Kong, and China)

### • Selected Professional Services

- Chair, IEEE Communications Society Cognitive Networks Technical Committee
- Chair, IEEE Communications Society Multimedia Communications Technical Committee
- Associate Editor-in-Chief, *IEEE Communications Society Technology News*
- Editor, *IEEE Transactions on Mobile Computing*
- Editor, *IEEE/ACM Transactions on Networking*
- Editor, *IEEE Journal on Selected Areas in Communications (Cognitive Radio Series)*
- Editor, *IEEE Transactions on Wireless Communications*
- Editor, *IEEE Transactions on Network Science and Engineering*
- Editor, *IEEE Transactions on Cognitive Communications and Networking*
- Steering Committee Member, *IEEE Transactions on Multimedia* and *IEEE ICME*
- Guest editor of 11 journal special issues, including three in *IEEE Journal on Selected Areas in Communications (IF: 8.085)* and one in *IEEE Transactions on Smart Grid (IF: 6.645)*
- Conferences: 34 times as organizing committee members, 54 times as TPC members (including INFOCOM 2009-2019, Mobihoc 2009/2012/2013/2014/2016/2017/2018)

## PERSONAL DATA

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

## EDUCATION

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

## FULL-TIME EMPLOYMENT

- **Professor** 08/2017 –  
*Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong, China*
- **Associate Professor** 08/2013 – 07/2017  
*Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong, China*
- **Assistant Professor** 08/2007 – 08/2013  
*Department of Information Engineering, The Chinese University of Hong Kong, Hong Kong, China*
- **Post-doctoral Research Associate** 11/2005 – 07/2007  
*Department of Electrical Engineering, Princeton University, Princeton, New Jersey, USA*

## VISITING AND GUEST PROFESSORSHIP

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

## MAIN RESEARCH INTERESTS

- Network games and economics

- Network performance optimization
- Wireless scheduling and resource allocation

## AWARDS AND HONORS

### • Research Recognition and Awards

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

### • Best Paper Awards/Finalists

1. IEEE Marconi Prize Paper Award in Wireless Communications, 2011
  - L. Qian, Y. Zhang, and J. Huang, "MAPEL: Achieving Global Optimality for a Non-convex Wireless Power Control Problem," *IEEE Transactions on Wireless Communications*, vol. 8, no. 3, pp. 1553-1563, March 2009
  - The award is given to the single best paper selected among 1755 papers published in *IEEE Transactions on Wireless Communications* during 2008-2010
2. IEEE Communications Society Young Professional Best Paper Award, 2017
  - G. Liao, X. Chen, and J. Huang, "Optimal Privacy-Preserving Data Collection: A Prospect Theory Perspective," *IEEE Global Communications Conference (GLOBECOM)*, Singapore, December 4 - 8, 2017
3. Best Paper Award Finalist, IEEE International Conference on Communications (ICC), Paris, France, May 2017
  - D. Zhao, H. Wang, J. Huang and X. Lin, "Pricing-based Energy Storage Sharing and Virtual Capacity Allocation"
4. Best Paper Award Finalist, IEEE International Conference on Computer Communications (INFOCOM), San Francisco, CA, USA, April 2016
  - H. Yu, M. Cheung, L. Gao, and J. Huang, "Economics of Public Wi-Fi Monetization and Advertising"
5. Best Student Paper Award, International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt), Mumbai, India, May 2015
  - Q. Ma, L. Gao, Y. Liu, and J. Huang, "A Game-Theoretic Analysis of User Behaviors in Crowdsourced Wireless Community Networks"
6. Best Paper Award, International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt), Hammamet, Tunisia, May 2014
  - Y. Luo, L. Gao, and J. Huang, "Trade Information, Not Spectrum: A Novel TV White Space Information Market Model"

7. Best Paper Award, International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt), Tsukuba Science City, Japan, May 2013
    - G. Iosifidis, L. Gao, J. Huang, and L. Tassiulas, "An Iterative Double Auction for Mobile Data Offloading"
  8. Best Paper Award, IEEE International Conference on Smart Grid Communications (SmartGridComm), Tainan, Taiwan, November 2012
    - C. Wu, H. Mohsenian-Rad, and J. Huang, "PEV-based Reactive Power Compensation for Wind DG Units: A Stackelberg Game Approach"
  9. Best Paper Award, International Conference on Wireless Internet (WiCON), Xi'An, China, October 2011
    - Y. Yan, J. Huang, and J. Wang, "Dynamic Bayesian Spectrum Bargaining with Non-Myopic Users"
  10. Best Paper Award Finalist, International Conference on Game Theory for Networks (GameNets), Shanghai, China, April 2011
    - R. Southwell and J. Huang, "Convergence Dynamics of Resource-Homogeneous Congestion Games"
  11. 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"
  12. Best Paper Award, Asia-Pacific Conference on Communications, Shanghai, China, October 2009
    - J. Huang and X. Huang, "Revenue Management for Cognitive Spectrum Underlay Networks: An Interference Elasticity Perspective"
- **Service Awards**
    1. IEEE Communications Society Multimedia Communications Technical Committee (MMTC) Distinguished Service Award, 2015
      - For exemplary services contributions to MMTC over a sustained period of time.
    2. IEEE Global Communications Conference (GLOBECOM) Outstanding Service Award, 2010
    3. IWCMC 2010 Conference Best Symposium Award, 2010

## EDITORSHIP

1. Editor, *IEEE Transactions on Mobile Computing*, 01/2018 - now
2. Series Editor, *Wiley Information and Communication Technology Series*, 06/2017 - now
3. Editor, *IEEE Transactions on Network Science and Engineering*, 03/2017 - now
4. Area Editor, *Springer Encyclopedia of Wireless Networks (Area on Network Economics and pricing)*, 02/2017 - now
5. Section Editor, *Springer Handbook of Cognitive Radio (Section on Cognitive Radio Resource Management)*, 02/2016 - now
6. Editor, *IEEE/ACM Transactions on Networking* (Impact factor: 2.186), 12/2016 - now
7. Founding Editor, *IEEE Transactions on Cognitive Communications and Networking*, 01/2015 - now
8. Editor, *IEEE Transactions on Wireless Communications* (Impact factor: 2.925), 07/2010 - 06/2015
9. Founding Editor, *IEEE Journal on Selected Areas in Communications - Cognitive Radio Series* (Impact factor: 8.085), 10/2011 - 12/2014
10. Associate Editor-in-Chief, *IEEE Communication Society Technology News*, 01/2014 - 04/2014
11. Editor, *IEEE Communication Society Technology News*, 11/2012 - 12/2013
12. Guest Editor, *IEEE Transactions on Network Science and Engineering*, special issue on "Economics of Modern Networks," 2019

13. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 8.085), special issue on "Game Theory for Networks," 2017
14. Guest Editor, *IEEE Transactions on Smart Grid* (Impact factor: 6.645), special Issue on "Big Data Analytics for Grid Modernization," 04/2016
15. Guest Editor, *IEEE Network* (Impact factor: 7.230), special issue on "Smart Data Pricing," 03/ 2016
16. Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 8.085), special issue on "Economics of Communication Networks and Systems," 10/ 2012
17. Lead Guest Editor, *IEEE Communications Magazine* (Impact factor: 10.435), special issue on "Communications Network Economics," 09/2012
18. Lead Guest Editor, *IEEE Journal on Selected Areas in Communications* (Impact factor: 8.085), special issue on "Game Theory in Communication Systems," 09/2008
19. Associate Editor, (*Elsevier*) *Journal of Computer & Electrical Engineering*, 03/2007– 03/2010
20. Guest Editor, (*Wiley*) *Wireless Communications and Mobile Computing*, special issue on "Innovative Communications for a Better Future," 12/2010
21. Lead Guest Editor, *Journal of Communications*, special issue on "Cognitive Radio Enabled Communication and Networking," 10/2009
22. Lead Guest Editor, (*Hindawi*) *Advances of Multimedia*, special issue on "Collaborating and Optimization in Multimedia Communications," 2008
23. Guest Editor, (*Hindawi*) *Advances of Multimedia*, special issue on "Cross-layer Optimized Wireless Multimedia Communications," 2007

## RESEARCH GRANTS

- Principle Investigator, "Collaborative Economics of Wireless Networks", General Research Fund, Hong Kong Research Grants Council, 01/07/2016 – 30/06/2019, HKD 675,647
- Principle Investigator, CUHK Focused Innovation Scheme - Scheme D: Support for High-Impact Scholarship, 2015, HKD 100,000
- Principle Investigator, "Economic Mechanism Design for Mobile Crowd Sensing" (reference number 14206315), General Research Fund, Hong Kong Research Grants Council, 01/07/2015 – 30/06/2018, HKD 696,029
- Principle Investigator, "Building Future Mobile Broadband Networks with Cellular Wi-Fi Integrations" (reference number 14202814), General Research Fund, Hong Kong Research Grants Council, 01/07/2014 – 30/06/2017, HKD 691,167
- Principle Investigator, "Coordination and Competition in Shared Spectrum: Market Mechanisms and Protocol Designs" (reference number 412713), General Research Fund, Hong Kong Research Grants Council, 01/01/2014 – 31/12/2016, HKD 836,450
- Principle Investigator, "Economic Viability of Dynamic Spectrum Management" (reference number 412511), General Research Fund, Hong Kong Research Grants Council, 30/10/2011 – 29/10/2014, HKD 1,078,125
- Principle Investigator, "Revenue Management for Wireless Data Networks" (reference number 412710), General Research Fund, Hong Kong Research Grants Council, 01/09/2010 – 31/08/2013, HKD 1,159,200
- Principle Investigator, "Dynamic Spectrum Sharing for Next Generation Wireless Networks" (reference number 412509), General Research Fund, Hong Kong Research Grants Council, 01/01/2010 – 31/12/2011, HKD 452,952
- Principle Investigator, "Utility-Optimal Design of Wireless Random Medium Access Control" (reference number 412308), General Research Fund, Hong Kong Research Grants Council, 01/09/2008 – 31/08/2010, HKD 289,966

- Co-Investigator, “Achieving QoE-aware Adaptive Mobile Video Streaming over Software Defined Networks” (reference number 61572538), National Natural Science Foundation of China, 01/01/2016 – 31/12/2019, RMB 660,000
- Co-Investigator, “Smart Solar Energy Harvesting, Storage and Utilization” (reference number T23-407/13-N), Theme-based Research Scheme, Hong Kong Research Grants Council, 01/01/2014 – 31/12/2018, HKD 50,000,000
- Co-Investigator, “Institute of Network Coding” (reference number EE09360), Areas of Excellence, Hong Kong Research Grants Council, 01/01/2010 – 31/12/2017, HKD 80,270,000
- Co-Investigator, “Resource Allocation and Operations Management of Cognitive Wireless Networks Based on Microeconomics Theory,” Interdisciplinary Research Fund, Tsinghua National Lab of Information Science and Technology, 01/07/2010 – 30/06/2012, HKD 183,845
- Co-Investigator, “Research and Development of Software Testing and Service Platform for Telecommunication Service Providers” (reference number 2007BAH17B04), National Key Technology R&D Program, Chinese Ministry of Science and Technology, 01/09/2007 – 31/08/2010, HKD 72,202,249
- Principle Investigator, “Distributed Resource Allocation in Cooperative Networks” (reference number C001-2050398), Direct Allocation, Hong Kong Research Grants Council, 01/11/2007 – 30/10/2010, HKD150,000
- Principle Investigator, “Research of Next Generation Wireless Networks,” Collaboration Research, Nanjing University of Post and Telecommunications, 01/04/2009 – 30/03/2011, HKD 566,303

## RESEARCH OUTPUTS

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

- **Books (\* denotes corresponding author, † denotes student/RA/Postdoc)**
  - (M1) Y. Wu, L. Qian\*, J. Huang, and X. Shen, *Radio Resource Management for Mobile Traffic Offloading in Heterogeneous Cellular Networks*, Springer, 2017
  - (M2) Y. Luo†, L. Gao†, and J. Huang\*, *Economics of Database-Assisted Spectrum Sharing*, Springer, July 2016
  - (M3) X. Chen† and J. Huang\*, *Social Cognitive Radio Networks*, Springer, January 2015
  - (M4) L. Duan†, J. Huang\*, and B. Shou, *Cognitive Mobile Virtual Network Operator Games*, Springer, October 2013
  - (M5) Y. Zhang\*, L. Qian†, and J. Huang, *Monotonic Optimization in Communication and Networking Systems*, Foundation and Trends in Networking, Now Publisher, October 2013
  - (M6) J. Huang\* and L. Gao†, *Wireless Network Pricing*, Synthesis Lectures on Communication Networks, Morgan & Claypool, July 2013
- **Refereed Book Chapters († denotes student/RA/Postdoc)**
  - (B1) X. Chen, and J. Huang, “Spatial Spectrum Access Game,” chapter in *Handbook of Cognitive Radio*, W. Zhang (editor), Springer, May 2017
  - (B2) L. Qian, Y. Wu, Y.J. Zhang, and J. Huang, “Demand Response Management via Real-Time Electricity Price Control in Smart Grids,” chapter in *Smart Grid: Networking, Data Management, and Business Models*, H.T. Mouftah and M. Erol-Kantarci (editors), CRC Press, April 2016
  - (B3) X. Chen† and J. Huang, “Self-Organizing Spectrum Access with Geo-location Database,” chapter in *Game Theory Framework Applied to Wireless Communication Networks*, C. Yang and J. Li (editors), IGI Global, August 2015
  - (B4) S. Li† and J. Huang, “Usage-based Pricing Differentiation: Incomplete Information and Limited Pricing Choices,” chapter in *Smart Data Pricing*, S. Sen, C. Joe-Wong, S. Ha, and M. Chiang (editors), John Wiley & Sons, August 2014

- (B5) J. Huang, "Economic Viability of Dynamic Spectrum Management," chapter in *Mechanisms and Games for Dynamic Spectrum Allocation*, T. Alpcan, H. Boche, M. Honig, and H. Poor (editors), Cambridge University, February 2014
- (B6) L. Fu<sup>†</sup>, H. Kim<sup>†</sup>, J. Huang, S.C. Liew, and M. Chiang, "Energy Conservation of Mobile Terminals in Multi-Cell TDMA Networks," chapter in *Green Communications: Theoretical Fundamentals, Algorithms, and Applications*, J. Wu, S. Rangan, and H. Zhang (editors), CRC Press, October 2012
- (B7) S. Gong<sup>†</sup>, P. Wang, and J. Huang, "Robust Performance of Spectrum Sensing in Cognitive Radio Networks," chapter in *Cognitive Radio and Interference Management: Technology and Strategy*, M.-L. Ku and J.-C. Lin (editors), IGI Global, August 2012
- (B8) C. Wu<sup>†</sup>, A.H. Mohsenian-Rad, and J. Huang, "Vehicle-to-Grid Systems: Ancillary Services And Communications," chapter in *Smart Grid Communications and Networking*, E. Hossain, Z. Han, and V. Poor (editors), Cambridge University, May 2012
- (B9) X. Ji<sup>†</sup>, J. Huang, M. Chiang, G. Lafruit, and F. Catthoor, "Scheduling and Resource Allocation for SVC Streaming over OFDM Downlink Systems," chapter in *Recent Advances of Video Coding*, J. Lorente (editor), InTech, July 2011
- (B10) D. Xu, J. Dwoskin<sup>†</sup>, J. Huang, T. Lan<sup>†</sup>, R. Lee, and M. Chiang, "Key Management in Wireless Sensor Networks," chapter in *Theoretical Aspects of Distributed Computing in Sensor Networks*, S. Nikolettseas and J. D.P. Rolim (editors), Springer, September 2010
- (B11) J. Huang and Z. Han, "Game theory for Spectrum Sharing," chapter in *Cognitive Radio Networks: Architectures, Protocols, and Standards*, Auerbach Publications, Y. Zhang, J. Zheng, and H.-H. Chen (editors), Auerbach Publications, CRC Press, May 2010
- (B12) J. Huang, V. Subramanian, R. Berry, and R. Agrawal, "Scheduling and Resource Allocation in OFDMA Wireless Communication Systems," chapter in *Orthogonal Frequency Division Multiple Access Fundamentals and Applications*, T. Jiang, L. Song, and Y. Zhang (editors), Auerbach Publications, CRC Press, April 2010

Table 1: Impact Factors of Selected Top Journals

Journal Title	Impact Factor	# of My Publications
<i>IEEE Journal on Selected Areas in Communications</i>	8.085	25
<i>IEEE Transactions on Smart Grid</i>	6.645	8
<i>IEEE Transactions on Mobile Computing</i>	3.822	25
<i>IEEE Transactions on Wireless Communications</i>	2.925	13
<i>IEEE/ACM Transactions on Networking</i>	2.186	10

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

- (J1) L. Gao<sup>†</sup>, M. Tang<sup>†</sup>, H. Pang<sup>†</sup>, J. Huang\*, and L. Sun, "Multi-User Mobile Video Streaming via Crowdsourcing," *IEEE Transactions on Mobile Computing*, accepted in April 2018
- (J2) M. Cheung<sup>†</sup>, F. Hou\*, and J. Huang, "Delay-Sensitive Mobile Crowdsensing: Algorithm Design and Economics," *IEEE Transactions on Mobile Computing*, accepted in March 2018
- (J3) S. Bahrami<sup>†</sup>, V. Wong\*, and J. Huang, "Data Center Demand Response in Deregulated Electricity Markets," *IEEE Transactions on Smart Grid*, accepted in February 2018
- (J4) Y. Wu, Y. He<sup>†</sup>, L. Qian\*, J. Huang, and X. Shen, "Optimal Resource Allocations for Mobile Data Offloading via Dual-Connectivity," *IEEE Transactions on Mobile Computing*, accepted in February 2018
- (J5) Q. Ma<sup>†</sup>, L. Gao<sup>†</sup>\*, Y. Liu, and J. Huang, "Incentivizing Wi-Fi Network Crowdsourcing: A Contract Theoretic Approach," *IEEE/ACM Transactions on Networking*, accepted in February 2018
- (J6) S. Wang<sup>†</sup>, S. Bi\*, Y. Zhang, and J. Huang, "Electrical Vehicle Charging Station Profit Maximization: Admission, Pricing, and Online Scheduling," *IEEE Transactions on Sustainable Energy*, accepted in February 2018

- (J7) C. Jiang<sup>†</sup>, L. Gao<sup>†</sup>, L. Duan, and J. Huang\*, "Data-Centric Mobile Crowdsensing," *IEEE Transactions on Mobile Computing*, IEEE Early Access Article, 2017
- (J8) C. Jiang<sup>†</sup>, L. Gao<sup>†</sup>, L. Duan, and J. Huang\*, "Scalable Mobile Crowdsensing via Peer-to-Peer Data Sharing," *IEEE Transactions on Mobile Computing*, IEEE Early Access Article, 2017
- (J9) Y. Luo<sup>†</sup>, N. Shah<sup>†</sup>, J. Huang\*, and J. Walrand, "Parametric Prediction from Parametric Agents," *Operations Research*, accepted in August 2017
- (J10) H. Yu<sup>†</sup>, M. Cheung<sup>†</sup>, G. Iosifidis, L. Gao<sup>†</sup>, L. Tassiulas, and J. Huang\*, "Mobile Data Offloading for Green Wireless Networks," *IEEE Wireless Communications*, vol. 24, no. 4, pp. 31 - 37, August 2017
- (J11) H. Wang<sup>†</sup> and J. Huang\*, "Incentivizing Energy Trading for Interconnected Microgrids," *IEEE Transactions on Smart Grid*, IEEE Early Access Article, 2017
- (J12) S. Bahrami<sup>†</sup>, V. Wong\*, and J. Huang, "An Online Learning Algorithm for Demand Response in Smart Grid," *IEEE Transactions on Smart Grid*, IEEE Early Access Article, 2017
- (J13) H. Shah-Mansouri<sup>†</sup>, V. Wong\*, and J. Huang, "An Incentive Framework for Mobile Data Offloading Market under Price Competition," *IEEE Transactions on Mobile Computing*, vol. 16, no. 11, pp. 2983 - 2999, November 2017
- (J14) H. Yu<sup>†</sup>, M. Cheung<sup>†</sup>, L. Gao<sup>†</sup>, and J. Huang\*, "Public Wi-Fi Monetization via Advertising," *IEEE/ACM Transactions on Networking*, vol. 25, no. 4, pp. 2110 - 2121, August 2017
- (J15) M. Cheung<sup>†</sup>, F. Hou\*, J. Huang, and R. Southwell<sup>†</sup>, "Congestion-Aware DNS for Integrated Cellular and Wi-Fi Networks," *IEEE Journal on Selected Areas in Communications*, vol. 35, no. 6, pp. 1269 - 1281, June 2017
- (J16) G. Iosifidis<sup>†</sup>, L. Gao<sup>†</sup>, J. Huang\*, and L. Tassiulas, "Efficient and Fair Collaborative Mobile Internet Access," *IEEE/ACM Transactions on Networking*, vol. 25, no. 3, pp. 1386 - 1400, June 2017
- (J17) Q. Ma<sup>†</sup>, L. Gao<sup>†</sup>, Y. Liu, and J. Huang, "Economic Analysis of Crowdsourced Wireless Community Networks," *IEEE Transactions on Mobile Computing*, vol. 16, no. 7, pp. 1856 - 1869, July 2017
- (J18) H. Yu<sup>†</sup>, M. Cheung<sup>†</sup>, and J. Huang\*, "Cooperative Wi-Fi Deployment: A One-to-Many Bargaining Framework," *IEEE Transactions on Mobile Computing*, vol. 16, no. 6, pp. 1536-1233, June 2017
- (J19) M. Tang<sup>†</sup>, L. Gao<sup>†</sup>, H. Pang<sup>†</sup>, J. Huang\*, and L. Sun, "Optimizations and Economics of Crowdsourced Mobile Streaming," *IEEE Communications Magazine*, vol. 55, no. 4, pp. 21 - 27, April 2017
- (J20) J. Yu<sup>†</sup>, M. Cheung<sup>†</sup>, J. Huang\*, and V. Poor, "Mobile Data Trading: Behavioral Economics Analysis and Algorithm Design," *IEEE Journal on Selected Areas in Communications*, vol. 35, no. 4, pp. 994 - 1005, April 2017
- (J21) T. Luo\*, S. Kanhere, J. Huang, S. Das, and F. Wu, "Sustainable Incentives for Mobile Crowdsensing: Auctions, Lotteries, Trust and Reputation Systems," *IEEE Communications Magazine*, vol. 55, no. 3, pp. 68 - 74, March 2017
- (J22) W. Yuan<sup>†</sup>, J. Huang\*, and Y. Zhang, "Competitive Charging Station Pricing for Plug-in Electric Vehicles," *IEEE Transactions on Smart Grid*, vol. 8, no. 2, pp. 627 - 639, March 2017
- (J23) H. Wang<sup>†</sup> and J. Huang\*, "Joint Investment and Operation of Microgrid," *IEEE Transactions on Smart Grid*, vol. 8, no. 2, pp. 833 - 845, March 2017
- (J24) L. Gao<sup>†</sup>, L. Duan, and J. Huang\*, "Two-sided Matching Based Cooperative Spectrum Sharing," *IEEE Transactions on Mobile Computing*, vol. 16, no. 2, pp. 538 - 551, February 2017
- (J25) S. Li, Z. Shao\*, and J. Huang, "ARM: Anonymous Rating Mechanism for Discrete Power Control," *IEEE Transactions on Mobile Computing*, vol. 16, no. 2, pp. 326 - 340, February 2017
- (J26) H. Yu<sup>†</sup>, G. Iosifidis<sup>†</sup>, J. Huang\*, and L. Tassiulas, "Auction-Based Competition between LTE Unlicensed and Wi-Fi," *IEEE Journal on Selected Areas in Communications*, vol. 35, no. 1, pp. 79 - 90, January 2017
- (J27) Y. Wu, J. Chen<sup>†</sup>, L. Qian\*, J. Huang, and X. Shen, "Energy-Aware Cooperative Traffic Offloading via Device-to-Device Cooperations: An Analytical Approach," *IEEE Transactions on Mobile Computing*, vol. 16, no. 1, pp. 97 - 114, January 2017
- (J28) Y. Luo<sup>†</sup>, L. Gao<sup>†</sup>, and J. Huang\*, "An Integrated Spectrum and Information Market for Green Cognitive Communications," *IEEE Journal on Selected Areas in Communications*, vol. 34, no. 12, pp. 3326 - 3338, December 2016
- (J29) Y. Wu\*, K. Guo<sup>†</sup>, J. Huang, and X. Shen, "Secrecy-based Energy-Efficient Data Offloading via Dual-Connectivity over Unlicensed Spectrums," *IEEE Journal on Selected Areas in Communications*, vol. 34, no. 12, pp. 3252 - 3270, December 2016



- (J30) J. Yu<sup>†</sup>, M. Cheung<sup>†</sup>, and J. Huang\*, "Spectrum Investment under Uncertainty: A Behavioral Economics Perspective," *IEEE Journal on Selected Areas in Communications*, vol. 34, no. 10, pp. 0733-8716, October 2016
- (J31) Q. Ma<sup>†</sup>, Y. Liu, and J. Huang\*, "Time and Location Aware Mobile Data Pricing," *IEEE Transactions on Mobile Computing*, vol. 15, no. 10, pp. 1536-1233, October 2016
- (J32) H. Wang<sup>†</sup> and J. Huang\*, "Cooperative Planning of Renewable Generations for Interconnected Microgrids," *IEEE Transactions on Smart Grid*, vol. 7, no. 5, pp. 2486 - 2496, September 2016
- (J33) C. Jiang<sup>†</sup>, L. Duan, and J. Huang\*, "Optimal Pricing and Admission Control for Heterogeneous Secondary Users," *IEEE Transactions on Wireless Communications*, vol. 15, no. 8, pp. 5218 - 5230, August 2016
- (J34) L. Gao<sup>†</sup>, B. Shou\*, Y.J. Chen, and J. Huang, "Combining Spot and Futures Markets: A Hybrid Market Approach to Dynamic Spectrum Access," *Operations Research*, vol. 64, no. 4, pp. 794 – 821, July - August 2016
- (J35) H. Wang<sup>†</sup>, J. Huang\*, X. Lin, and A.H. Mohsenian-Rad, "Proactive Demand Response for Data Centers: A Win-Win Solution," *IEEE Transactions on Smart Grid*, vol. 7, no. 3, pp. 1584-1596, May 2016
- (J36) L. Duan<sup>†</sup>, B. Shou\*, and J. Huang, "Capacity Allocation and Pricing Strategies for New Wireless Services," *Production and Operations Management*, vol. 25, no. 5, pp. 866 - 882, May 2016
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- V. Subramanian, R. Agrawal, R. Berry, and J. Huang, "Method and System for Allocating Subcarriers to Subscriber Devices," US patent No. 7586990, September 2009

## INDUSTRY COLLABORATION

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

## STUDENT SUPERVISION

### • Graduated PhD students

1. Liqun Fu: thesis title "Scheduling in Wireless Networks with Physical Interference Constraints" (co-supervision with Prof. Soung Chang Liew), Ph.D. defense 07/2010, currently a Distinguished Professor at Xiamen University (China), recipient of **Chinese Thousand Talents Plan Award for Young Professionals 2015**
2. Lingjie Duan: thesis title "Some Economics of Cellular and Cognitive Radio Networks," PhD defense 06/2012, currently an Assistant 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 06/2012, currently a Full Professor at Sun Yat-Sen University (Guangzhou, 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 07/2012, first job as a Research Scientist at Bell Labs (Shanghai)
5. Lok Man Law: thesis title "Game Theoretical Analysis of Congested Wireless Networks" (co-supervision with Prof. Shuo-Yen Robert Li), PhD defense 03/2013, first job as an Engineer at SmarTone Vodafone (Hong Kong)
6. Yuan Luo: thesis title "Economics of White Space Network," PhD defense 08/2015, currently a Research Fellow at Imperial College London, 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 05/2016, currently a Postdoc at University of Washington
8. Haoran Yu: thesis title "Optimization and Economic Analysis of Wi-Fi Networks", PhD defense 08/2016, currently a Postdoc at Northwestern University

9. Qian Ma: thesis title “Incentive Mechanism Design for Networked Markets”, PhD defense 02/2017, currently a Postdoc at The Chinese University of Hong Kong, recipient of the **IEEE WiOpt 2015 Best Student Paper Award**
  10. Changkun Jiang: thesis title “Crowdsourced Network Resource Sharing: Optimization and Incentives”, PhD defense 06/2017, currently a Postdoc at the Chinese University of Hong Kong
  11. Junlin Yu: thesis title “Behavior Economic Analysis in Wireless Networks”, PhD defense 08/2017, first job as an Engineer at Huawei
- **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. Ming Tang: thesis topic “Incentive Mechanism Design for User Provided Networks”, **Hong Kong PhD Fellow**, starting 08/2014
    2. Dongwei Zhao: thesis topic “Economic Mechanism Design for Smart Grid Storage Systems”, starting 08/2015
    3. Meng Zhang: thesis topic “Network Sharing Economy”, starting 08/2015
    4. Zhiyuan Wang: thesis topic “Economics of Mobile Data Pricing”, **Hong Kong PhD Fellow**, starting 08/2016
    5. Guocheng Liao: thesis topic “Data Privacy Protection of Big Data Market”, starting 08/2016
    6. Qi Shao: thesis topic TBD, **Hong Kong PhD Fellow**, starting 08/2017
    7. Chao Huang: thesis topic TBD, starting 08/2017
  - **Post-doctoral Researchers**
    1. Dr. Yanru Zhang, Ph.D. from University of Houston (USA), postdoc at CUHK since 03/2017
    2. Dr. Man Hon Cheung: Ph.D. from University of British Columbia (Canada), postdoc at CUHK (jointly with University of Macau) 08/2012 - 06/2017, currently Research Assistant Professor at the Chinese University of Hong Kong
    3. Dr. Lin Gao: Ph.D. from Shanghai Jiaotong University (China), postdoc at CUHK 09/2010 – 08/2015, currently Associate Professor at Harbin Institute of Technology (Shenzhen), recipient of **IEEE WiOpt 2013/2014/2015 Best (Student) Paper Award** and **IEEE Communications Society Asia-Pacific Outstanding Young Researcher Award 2016**
    4. Dr. Richard Southwell: Ph.D. from Sheffield University (UK), postdoc at CUHK 09/2010 – 12/2014, first job Assistant Professor at Tsinghua University (China)
    5. Dr. Quansheng Guan: Ph.D. from South China University of Technology, postdoc at CUHK during 02/2012 – 02/2013, currently Professor at South China University of Technology (China)
    6. Dr. Fen Hou: Ph.D. from University of Waterloo (Canada), postdoc at CUHK during 08/2009 – 03/2011, currently Assistant Professor at University of Macau, recipient of **IEEE GLOBECOM 2010 Best Paper Award**
    7. Dr. Junhua Zhu: Ph.D. from Hong Kong University of Science and Technology, postdoc at CUHK during 03/2009 – 12/2009, first job senior researcher at Huawei (China)
  - **Visiting Students**
    1. Qinghua Ding, Undergraduate student from Tsinghua University (China), 01/2017 – 05/2017

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

## CLASSROOM TEACHING

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

- The teaching evaluation is on the scale of 1 – 6, with the highest (best) being 6.
- Mean is the average value among top 90% evaluations for a course, which is used for tenure evaluation and promotion at CUHK.
- Department Mean is computed separately for undergraduate, graduate, and general education courses, except the year of 2008/2009 where only one department average of all courses was available.

## HALF-DAY TUTORIALS

- Fog Computing and Networking: A New Paradigm for 5G and IoT Applications
  - IEEE ICC, Paris, France, 21/05/2017
  - IEEE ICC, Kansas, USA, 20/05/2018
- User-Provided Networks: <http://jianwei.ie.cuhk.edu.hk/Files/UPN-Tutorial.pdf>
  - IEEE GLOBECOM, San Diego, CA, USA, 06/12/2015
- Economics of TV White Space Networks: <http://jianwei.ie.cuhk.edu.hk/Files/TV-Tutorial.pdf>
  - IEEE DySPAN, Baltimore, USA, 03/06/2017
  - IEEE ICC, Shenzhen, China, 02/11/2015
- Mobile Data Offloading: <http://jianwei.ie.cuhk.edu.hk/Files/MDO-Tutorial.pdf>

Table 2: Summary of Course Evaluations

Year	Term	Course	Title (Undergraduate/Graduate)	Class Size	Mean (Dept. Mean)
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, London, UK, 12/06/2015
- IEEE ICC, Sydney, Australia, 10/06/2014

- Wireless Network Economics and Games:

<http://jianwei.ie.cuhk.edu.hk/Files/WNEG-Tutorial.pdf>

- The China Computer Federation Advanced Disciplines Lectures on *New Exploration of Internet of Things*, Shanghai Jiaotong University, Shanghai, China, 20/09/2014
- IEEE Summer School on *Internet of Things and Machine-to-Machine Systems*, National University of Taiwan, Taiwan, 26/08/2014
- IEEE GLOBECOM, Atlanta, USA, 13/12/2013

- How Do We Play Games? (a short course on game theory):

- CUHK iTunesU:  
<https://itunes.apple.com/hk/course/how-do-we-play-games/id642100914>
- YouKu: [http://www.youku.com/playlist\\_show/id\\_19119535.html](http://www.youku.com/playlist_show/id_19119535.html)
- NetEase Public Course: <http://open.163.com/special/opencourse/mysteryofgame.html>

## KEYNOTE/PLENARY TALKS

- “Achieving Efficient and Fair Equilibria Through Taxation,” Asia-Pacific Conference on Communications, Perth, Australia, 11/12/2017
- “Renewable Energy Investment and Operation in Microgrids,” IEEE International Conference on Smart Grid Communications (SmartGridComm), Dresden, Germany, 25/10/2017
- “Communication Network Economics,” Workshop on Computing, Communications, and Caching, China Institute of Communications, Chongqing, China, 23/09/2017
- “Communications Network Economics,” 2016 Shannon Workshop, Shanghai Jiaotong University, Shanghai, China, 14/12/2016
- “Incentive Mechanisms for User-Provided Networks,” International Conference on Networking and Network Applications, Hakodate City, Hokkaido, Japan, 24/07/2016
- “Crowdsourced Mobile Video Streaming,” International Symposium on Network Economics and Big Data, Beijing, China, 09/07/2016
- “Enabling Crowd-Sourced Mobile Internet Access,” Workshop on National 973 Project of Energy and Resource Optimized Next-Generation Hyper-Cellular Networks, Shanghai, China, 16/10/2014
- “Incentive Mechanisms for User-Provided Networks,” National Doctoral Forum on Information Science, Sun Yat-Sen University, Guangzhou, China, 22/08/2014

## DISTINGUISHED LECTURES/INVITED PRESENTATIONS

- “Economic Thinking of Communications Network”
  - 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, 09/05/2017 (*IEEE ComSoc Distinguished Lecture*)
  - IEEE ComSoc Atlanta Chapter, Atlanta, GA, 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, UK, 08/06/2015 (*IEEE ComSoc Distinguished Lecture*)
  - Academia Sinica, Taipei, Taiwan, 09/04/2015
  - School of Information Science and Engineering, Southeast University, Nanjing, China, 17/10/2014
  - Jiangsu Provincial Collaborative Innovation Center on Satellite Communications, Nanjing, China, 17/10/2014
  - IEEE International Conference on Communications China (ICCC), Shanghai, China, 15/10/2014
  - Department of Electrical Engineering, National Tsing Hua University, Taiwan, 27/08/2014
- “Mobile Data Offloading”
  - Department of Electrical and Electronic Engineering and Computing, Imperial College, London, UK, 04/06/2015 (*IEEE ComSoc Distinguished Lecture*)
  - Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Barcelona, Spain, 02/06/2015 (*IEEE ComSoc Distinguished Lecture*)
  - Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, Hong Kong, 26/02/2015
  - School of Information Science and Technology, ShanghaiTech University, Shanghai, China, 13/10/2014
  - Department of Communication Engineering, National Chiao Tung University, Taiwan, 27/08/2014
  - Department of Electrical Engineering, National University of Taiwan, Taiwan, 25/08/2014
  - Brainstorming Workshop on 5G Wireless, Hong Kong, 02/04/2014
  - Qualcomm, Bridgewater, NJ, USA, 19/03/2014
  - Department of Electrical Engineering, Princeton University, Princeton, NJ, USA, 18/03/2014

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

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

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

## PROFESSIONAL SOCIETIES

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

## CONFERENCE ORGANIZATION

- **Organizing Committee Member**
  1. Technical Program Committee Co-Chair, IEEE International Conference on Communications (ICC), Dublin, Ireland, June 2020
  2. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Paris, France, 29/04 – 02/05/2019
  3. Technical Program Committee Co-Chair, International Conference on NETwork Games, COntrol and OPTimization (NetGCoop), New York, NY, USA, 15/11-16/11/2018
  4. Area Technical Program Committee Chair, IEEE International Conference on Computer Communications (INFOCOM), Honolulu, HI, USA, 15/04 – 19/04/2018
  5. General Co-Chair, International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Shanghai, China, 7/05 – 11/05/2018
  6. Technical Program Committee Co-Chair, Symposium on Cognitive Radio and Networks, IEEE Global Communications Conference (GLOBECOM), 04/12 - 10/12/2017

7. General Co-Chair, CUHK Fog Computing and Communications Workshop, Hong Kong, 09/2017
8. Technical Program Committee Co-Chair, Area of Wireless Networks and Applications, 29th International Teletraffic Congress (ITC), Genoa, Italy, 09/2017
9. 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
10. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Atlanta, GA, USA, 01/05/2017
11. 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
12. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, San Francisco, CA, USA, 11/04/2016
13. Technical Program Committee Co-Chair, Symposium of Wireless Communications Systems, IEEE International Conference on Communications in China (ICCC), 02/11 - 04/11/2015
14. Technical Program Committee Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Hong Kong, China, 26/04/2015
15. Local Arrangement Co-Chair, IEEE International Conference on Computer Communications (INFOCOM), Hong Kong, China, 26/04 – 01/05/2015
16. Steering Committee Member, IEEE International Conference on Multimedia & Expo (ICME), 06/2012 – 06/2014
17. Advisory Committee Member, International Conferences on Signal Processing and Communication Systems (ICSPCS), Gold Coast, Australia, 16/12 - 18/12/2013
18. Technical Program Committee Co-Chair, International Conference on NETWORK Games, CONTROL and OPTimization (NetGCoop), Trento, Italy, 29/10-31/10/2014
19. 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
20. Steering Committee Member, International Workshop on Green Cognitive Communications and Computing Networks (co-located with IEEE INFOCOM), Toronto, Canada, 27/04 - 02/05/2014
21. Publicity Co-Chair, IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Toronto, Canada, 02/05/2014
22. 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
23. Special Session Organizer, “Game Theory for Wireless Networks”, International Conference on Algorithms, Systems, and Applications of Wireless Networks (WASA), 08/08 – 08/10/2013
24. 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
25. Publicity Co-Chair, IEEE Communication Theory Workshop (CTW), Maui, Hawaii, USA, 14/05 – 16/05/2012
26. 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
27. 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
28. Special Session Organizer, “Economics of Dynamic Spectrum Management,” IEEE Dynamic Spectrum Access Networks (DySPAN), Aachen, Germany, 03/05 – 06/05/2011
29. Special Session Organizer, “Wireless Networking Games,” International Conference on Game Theory for Networks (GameNets), Shanghai, China, 16/04 – 18/04/2011
30. Technical Program Committee Co-Chair, Wireless Communications Symposium, IEEE Global Communications Conference (GLOBECOM), Miami, Florida, USA, 06/12 – 10/12/2010

31. Technical Program Committee Co-Chair, Mobile Computing Symposium, ACM International Wireless Communications and Mobile Computing Conference (IWCMC), Caen, France, 28/06 – 02/07/2010
  32. Technical Program Committee Co-Chair, International Conference on Game Theory for Networks (GameNets), Istanbul, Turkey, 13/05 – 15/05/2009
  33. Special Session Organizer, “Collaboration and Optimization of Multimedia Communications,” International Symposium on Multimedia over Wireless (ISMW), Honolulu, HI, USA, 12/08 – 16/08/2007
  34. 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. IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN), Seoul, Korea, 22/10 – 25/10/2018
    2. ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon), Irvine, CA, USA, 18/06/2018
    3. IEEE International Conference on Communications (ICC), Kansas City, MO, USA, 20/05 – 24/06/2018
    4. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), IIT Madras, Chennai, India, 10/07 – 14/07/2017
    5. IEEE International Conference on Computer Communications (INFOCOM), Atlanta, GA, USA, 01/05 – 04/05/2017
    6. ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon), Juan-les-Pins, France, 14/06/2016
    7. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Paderborn, Germany, 04/07 – 08/07/2016
    8. IEEE International Conference on Computer Communications (INFOCOM), San Francisco, CA, USA, 10/04 – 15/04/2016
    9. IEEE International Conference on Smart Grid Communications (SmartGridComm), Miami, FL, USA, 12/11-05/11/2015
    10. IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), Dallas, TX, USA, 19/10 – 22/10/2015
    11. IEEE International Conference on Sensing, Communication, and Networking (SECON), Seattle, WA, USA, 22/06 – 25/06/2015
    12. IEEE International Conference on Computer Communications (INFOCOM), Hong Kong, China, 26/04 – 01/05/2015
    13. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), Philadelphia, PA, USA, 11/08 - 14/08/2014
    14. Joint Workshop on Pricing and Incentives in Networks and Systems (W-PIN+NetEcon), Austin, USA, 16/06/2014
    15. IEEE International Conference on Computer Communications (INFOCOM) Smart Data Pricing Workshop, Toronto, Canada, 02/05/2014
    16. IEEE International Conference on Communications (ICC), Sydney, Australia, 10/06 – 14/06/2014
    17. International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Hammamet, Tunisia, 12/05 – 16/05/2014
    18. IEEE International Conference on Computer Communications (INFOCOM), Toronto, Canada, 28/04 – 02/05/2014
    19. IEEE Global Conference on Signal and Information Processing (GlobalSIP), Austin, Texas, USA, 03/12 - 05/12/2013
    20. IEEE International Conference on Smart Grid Communications (SmartGridComm), Vancouver, Canada, 21/10 – 24/10/2013

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

46. IEEE WCNIS, Beijing, China, 25/06 – 27/06/2010
47. ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), New Orleans, Louisiana, 18/05 – 21/05/2009
48. IEEE International Conference on Computer Communications (INFOCOM), Rio de Janeiro, Brazil, 19/04 – 25/04/2009
49. IEEE Wireless Communications & Networking Conference (WCNC), Budapest, Hungary, 05/04 – 08/04/2009
50. IEEE Wireless Communications & Networking Conference (WCNC), Las Vegas, Nevada, USA, 31/03 – 03/04/2008
51. IEEE Global Communications Conference (GLOBECOM), Washington DC, USA, 26/11 – 30/11/2007
52. International Conference on Communications and Networking in China (ChinaCom), Shanghai, China, 22/08 – 24/08/2007
53. International Conference on Cognitive Radio Oriented Wireless Networks and Communications (CrownCom), Orlando, Florida, USA, 31/07 – 03/08/2007
54. IEEE Consumer Communications and Networking Conference (CCNC), Las Vegas, Nevada, USA, 11/01 – 13/01/2007

- **Funding Proposal Reviewer**

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

## PROFESSIONAL SERVICES

- Chair, IEEE Communications Society Cognitive Networks Technical Committee (TCCN), 12/2016 – 12/2018
- Chair, IEEE ComSoc Asia-Pacific Board Technical Affairs Committee, 01/2016 - 12/2017
  - Lead the selection of IEEE ComSoc APB Young Researcher Awards and Outstanding Paper Awards
- Member, the inaugural IEEE ComSoc Best Young Professional Award Committee, 2016
- Vice Chair, IEEE Communications Society Cognitive Networks Technical Committee (TCCN), 12/2014 – 12/2016
- Chair, IEEE Communications Society Multimedia Communications Technical Committee (MMTC), 06/2012 – 06/2014
  - Lead technical activities related to multimedia communications within IEEE Communications Society (ComSoc), with the support from a core leadership team of 50+ volunteers from academia and industry and close to 1000 active members in the community
  - Manage 13 Interests Groups that organized 50+ workshops, conference special sessions, and journal/magazine special issues since 2010
  - Advise the bi-monthly publications of MMTC *E-Letter* and *R-letter*, which introduce the latest technology trends and recommend excellent publications to the community
  - Nominate TPC/Symposium Chairs for *IEEE GLOBECOM*, *ICC*, *ICME*, and *CCNC*, Editors for *IEEE Transactions on Multimedia*, and IEEE ComSoc Distinguished Lecturers
  - Endorse MMTC Best Paper Awards, Service Awards, and Excellent Editor Awards
- Vice Chair, IEEE Communications Society Multimedia Communications Technical Committee (MMTC), 05/2010 – 06/2012



- Vice Chair, IEEE ComSoc Asia-Pacific Board Technical Affairs Committee, 01/2014 - 12/2015
- Steering Committee Member, *IEEE Transactions on Multimedia*, 01/2013 – 12/2014
  - Making strategic decisions for the journal, such as approving budgets, appointment of Editor-in-Chief and Associate Editors
- Chair, Meeting and Conference Committee, IEEE Communications Society Asia Pacific Board, 01/2012 – 12/2013
- Director, IEEE Communications Society Multimedia Communications Technical Committee Electronic Letter, 02/2010 – 05/2010

## CUHK INTERNAL SERVICES

- Member, Management Committee of Shun Hing Institute of Advanced Engineering, 08/2017 - 07/2020
- Member, 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 of PhD Dissertation Committee, Department of Computing, The Hong Kong Polytechnic University, Hong Kong, 04/2016
- Member of PhD Dissertation Committee, Department of Computing, The Hong Kong Polytechnic University, Hong Kong, 04/2016

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