Dr. Lin Gao

Contact Information

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Education and Working

- **Professor** (2023–Now), **Associate Professor** (2015–2022) 2015.09 − Now
  Electronics and Information Engineering (EIE), Harbin Institute of Technology, Shenzhen, China
    – Research Topic: "Edge/Crowd/Cloud Computing, Game Theory, and Machine Learning"
- **Postdoc Fellow** 2010.08 − 2015.08
  Information Engineering (IE), The Chinese University of Hong Kong, Shatin, Hong Kong
    – Research Topic: "Network Optimizations and Economics"
- **Doctor of Philosophy (Ph.D.)** 2006.09 − 2010.07
  Electronic Engineering (EE), Shanghai Jiao Tong University, Shanghai, China
    – Thesis: "Dynamic Spectrum Sharing in Cognitive Radio Networks: A Game-Theoretical Approach"
- **Master of Engineering (M.E.)** 2004.09 − 2007.01
  Electronic Engineering (EE), Shanghai Jiao Tong University, Shanghai, China
    – Thesis: "Research on Adaptive Resource Allocation for MIMO-OFDM Systems"
- **Bachelor of Engineering (B.E.)** 1998.09 − 2002.07
  Information Engineering (IE), Nanjing University of Posts and Telecommunications, Nangjing, China

Research Interest

- **Artificial Intelligence and Game Theory**
    – AI-Generated Content and Large Language Model
    – Deep Reinforcement Learning and Federated Learning
    – Game-Theoretic Analysis and Incentive Mechanism Design
- **Mobile Computing and Networking**
    – Edge Computing, Caching, and Networking
    – Mobile Crowdsensing and Crowd Computing
    – Cognitive Networking and Network Intelligence

Research Awards

- **IEEE ComSoc Asia-Pacific Outstanding Young Researcher Award**, *IEEE ComSoc*, 2016
- **Best Paper Award**, *IEEE WCNC*, 2019
- **Best Paper Award**, *IEEE WiOPT*, 2014
- **Best Paper Award**, *IEEE WiOPT*, 2013
- **Best Paper Award Finalist**, *IEEE INFOCOM*, 2016
- **Best Student Paper Award**, *IEEE WiOPT*, 2015

Teaching Experiences

- "**Stochastic Network Optimization**," 32 hours (**in English**), *Graduate Course* in the School of
  Electronics and Information Engineering, Harbin Institute of Technology, Shenzhen 2016 − Now
- "**Communication Circuit Design**", 80 hours, *Undergraduate Course* in the School of Electronics and
  Information Engineering, Harbin Institute of Technology, Shenzhen 2018 − Now
- "**Experiments for Communication Principles**", 48 hours, *Undergraduate Course* in the School of
  Electronics and Information Engineering, Harbin Institute of Technology, Shenzhen 2018 − Now
- "**Networks: Technology, Economics, and Social Interactions** (IERG 3280)", *Guest Lecture* in the
  Department of Information Engineering, The Chinese University of Hong Kong 2013
- "**Network Economics** (IERG 6280)", *Guest Lecture* in the Department of Information Engineering, The
  Chinese University of Hong Kong 2011

Research Grants

- **PI**, "Intelligent and Collaborative Optimizations for Mobile Edge Networks," *Shenzhen Science and Technology Program*, 2020–2023, RMB **300k**
- **PI**, "Multi-Dimensional Resource Optimization and Management for Edge Networks," *National Natural Science Foundation of China (NSFC)*, 2020–2023, RMB **600k**
- **PI**, "Multi-Dimensional Spectrum Resource Sharing Principle and Incentive," *National Natural Science Foundation of China (NSFC)*, 2018.01–2018.12, RMB **160k**
- **PI**, "Dynamic Spectrum Sharing and Spectrum Big Data," *Research Foundation for Advanced Talents*, Shenzhen, China, 2017–2019, RMB **3000k**
- **PI**, "TV White Space Ecosystem," *Scientific Research Innovation Fund*, Harbin Institute of Technology, Harbin, China, 2017–2019, RMB **100k**
- **PI**, "TV White Space Network Optimizations and Economics," *Startup Research Fund*, Harbin Institute of Technology, Shenzhen, China, 2015–2017, RMB **200k**

Professional Activities

- **Membership**
  - Senior Member, IEEE & IEEE Communications Society

- **Editorship**
  - Associate Editor, IEEE Transactions on Network Science and Engineering, 2021–2024
  - Associate Editor, IEEE Open Journal of the Communications Society, 2021-Now
  - Editor, China Communications, 2016–Now
  - Editor, Journal of Communications and Information Networks, 2017–2020
  - Guest Editor, IEEE Journal on Selected Areas in Communications, 2019
  - Guest Editor, Journal of Mobile Information Systems, 2015

- **Chairing**
  - Vice Chair, IEEE Technical Committee on Cognitive Networks (TCCN), 2020-2022
  - TPC Co-Chairs, IEEE/IFIP WiOpt 2023, Singapore, August 2023
  - Tutorial Co-Chairs, IEEE/CIC ICCC 2023, Dalian, China, August 2023
  - Track Chair, IEEE VTC-Fall 2022 (Track of "Wireless Networks: Protocols, Security and Services"), London/Beijing, September 2022
  - Symposium Chair, IEEE ICC 2020 (Symposium of "Mobile and Wireless Networks"), Virtual Conference, May 2020
  - TPC Vice Chair, IEEE/IFIP WiOpt 2018, Shanghai, China, May 2018
  - Publicity & Social Media Chair, EAI GameNets 2017, Tennessee, USA, May 2017
  - Publicity Chair, IEEE GSNC 2016, San Francisco, USA, April 2016
  - Publicity Chair, IEEE SDP 2015, Hong Kong, April 2015
  - Symposium Chair, EAI GameNets 2014 (Symposium of "Pricing and Network Optimization"), Beijing, China, Nov 2014

- **Technical Program Committee (TPC) Members**
  - IEEE International Conference on Computer Communications (INFOCOM), 2017–Now
  - IEEE International Conference on Communications (ICC), 2012–Now
  - IEEE Global Communications Conference (GLOBECOM), 2013–Now
  - Asia-Pacific Conference on Communications (APCC), 2013–Now
  - International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt), 2013–Now

- **Technical Reviewers**
  - Journal: IEEE/ACM TON, IEEE JSAC, TMC, TNSE, TCOM, TWC, TVT
  - Conferences: ACM MobiHoc, IEEE INFOCOM, ICC, GLOBECOM, DySPAN, WCNC, WiOpt

PUBLICATIONS

Google Scholar Citations (Feb 2023)

- Total Citations: **4250** (H-index: **29**, i10-index: **71**)
- Citations of the Most Cited Paper: **399**
- url: `https://scholar.google.com/citations?user=41wcJi4AAAAJ&hl=en`

Book

[1] G. Iosifidis, **Lin Gao**, J. Huang, and L. Tassiuals, "Incentive Schemes for User-Provided Fog Infrastructure," chapter in *Fog and Fogonomics: Challenges and Practices of Fog Computing, Communication, Networking, Strategy, and Economics* (Editor-in-Chief: Yang Yang), Wiley, 2020.

[2] **Lin Gao**, L. Duan, S. Gong, and Q. Zhang, "Matching for Cooperative Spectrum Sharing", chapter in *Encyclopedia of Wireless Networks* (Editor-in-Chief: Sherman Shen), Springer, 2018

[3] **Lin Gao**, X. Wang, Y. Xu, and Q. Zhang, "Contract-Based Secondary Spectrum Trading", chapter in *Handbook of Cognitive Radio: Cognitive Radio Resource Management* (Editor-in-Chief: Wei Zhang, Section Editors: Jianwei Huang and Xu Chen), Springer, 2017

[4] Y. Luo, **Lin Gao**, and J. Huang, *Economics of Database-Assisted Spectrum Sharing*, Springer Briefs (Series Editor: Sherman Shen), Springer, 2016 (ISBN: 9783319432304, Page Number: 100)

[5] J. Huang and **Lin Gao**, *Wireless Network Pricing*, Synthesis Lectures on Communication Networks (Series Editor: Jean Walrand), Morgan & Claypool Publishers, July 2013 (ISBN: 9781608459759, Page Number: 176)

[6] Y. Xu, D. Li, W. Zhong, and **Lin Gao**, *Resource Management of Cognitive Radio Networks: Game Theoretic Modeling and Performance Analysis* (in Chinese), Publishing House of Electronics Industry, Beijing, China, October 2013 (ISBN: 9787121212420, Page Number: 256)

Journal (name* denotes corresponding author, and name† denotes student that I supervise/co-supervise.)

Summary: 32 out of 64 journal papers are published in CCF A journals, and 62 out of 64 journal papers are published in JCR Q1 journals.

[1] N. Ding, **Lin Gao**, and J. Huang, "Incentive Mechanism Design for Federated Learning with Dynamic Network Pricing," *IEEE Transactions on Mobile Computing (TMC)*, Early Access, 2025 (IF:7.9, JCR Q1, **CCF A**)

[2] Q. Ma, Y. Qin, C. Zhu, **Lin Gao**, and X. Chen, "Joint Resource Trading and Task Scheduling in Edge-Cloud Computing Networks," *IEEE/ACM Transactions on Networking (TON)*, Early Access, 2024 (IF:3.7, JCR Q1, **CCF A**)

[3] J. Wu†, J. Luo*, C. Jiang, and **Lin Gao***, "A Multi-Agent Deep Reinforcement Learning Approach for Multi-UAV Cooperative Search in Multi-layered Aerial Computing Networks," *IEEE Internet of Things Journal (IOT)*, Early Access, 2024 (IF:10.6, JCR Q1, CCF C)

[4] J. Wu†, T. Tang, C. Jiang, **Lin Gao***, and B. Cao*, "Cloud-Edge-End Collaborative Task Offloading in Vehicular Edge Networks: A Multilayer Deep Reinforcement Learning Approach," *IEEE Internet of Things Journal (IOT)*, vol.11, no.22, pp.36272-36290, Nov 2024 (IF:10.6, JCR Q1, CCF C)

[5] C. Jiang, **Lin Gao***, F. Hou, and J. Li, "Economic Analysis of Edge Caching Enabled Mobile Internet Ecosystem," *IEEE Transactions on Mobile Computing (TMC)*, vol.23, no.11, pp.10647-10664, Nov 2024 (IF:7.9, JCR Q1, **CCF A**)

[6] C. Jiang, Z. Luo, **Lin Gao***, and J. Li, "A Truthful Incentive Mechanism for Movement-Aware Task Offloading in Crowdsourced Mobile Edge Computing Systems," *IEEE Internet of Things Journal (IOT)*, vol.11, no.10, pp.18292-18305, May 2024 (IF:10.6, JCR Q1, CCF C)

[7] B. Shi†, C. She, F.-C. Zheng, **Lin Gao**, and G. Li, "Puncturing-Based Resource Allocation for URLLC and eMBB Services via Matching Theory and Unsupervised Deep Learning," *IEEE Transactions on Vehicular Technology (TVT)*, vol.73, no.9, pp.13396-13411, Sep 2024 (IF:6.8, JCR Q1)

[8] H. Wu†, X. Tang, Y. Zhang, and **Lin Gao**, "Incentive Mechanism for Federated Learning with Random Client Selection," *IEEE Transactions on Network Science and Engineering (TNSE)*, vol.11, no.2, pp.1922-1933, April 2024 (IF:6.6, JCR Q1)

[9] Z. Chen[†], Q. Ma, **Lin Gao**, and X. Chen, "Price Competition in Multi-Server Edge Computing Networks under SAA and SIQ Models," *IEEE Transactions on Mobile Computing (TMC)*, vol.23, no.1, pp.754-768, Jan 2024 (IF:7.9, JCR Q1, **CCF A**)

[10] N. Ding[†], **Lin Gao**, and J. Huang, "Optimal Pricing Design for Coordinated and Uncoordinated IoT Networks," *IEEE Transactions on Mobile Computing (TMC)*, vol.22, no.12, pp.7121-7137, December 2023 (IF:7.9, JCR Q1, **CCF A**)

[11] C, Jiang, **Lin Gao**[*], J. Luo, P. Zhou, and J. Li, "A Game-Theoretic Analysis of Joint Mobile Edge Caching and Peer Content Sharing," *IEEE Transactions on Network Science and Engineering (TNSE)*, vol.10, no.3, pp.1445-1461, June 2023 (IF:6.6, JCR Q1)

[12] A. Wang, Z. Qin, L. Zheng, D. Li, and **Lin Gao**, "Distributed Robust Bandits With Efficient Communication," *IEEE Transactions on Network Science and Engineering (TNSE)*, vol.10, no.3, pp.1586-1598, June 2023 (IF:6.6, JCR Q1)

[13] J. Liu, D. Li, H. Zhao, and **Lin Gao**, "Robust Discriminant Subspace Clustering With Adaptive Local Structure Embedding," *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, vol.34, no.5, pp.2466-2479, May 2023 (IF:10.4, JCR Q1)

[14] G. Zhang[†], F. Hou, **Lin Gao**, G. Yang, and L. X. Cai, "Nondeterministic-Mobility-Based Incentive Mechanism for Efficient Data Collection in Crowdsensing," *IEEE Internet of Things Journal (IOT)*, vol.9, no.23, pp.23626-23638, December 2022 (IF:10.6, JCR Q1, CCF C)

[15] Z. Wang[†], **Lin Gao**[*], T. Wang, and J. Luo, "Monetizing Edge Service in Mobile Internet Ecosystem," *IEEE Transactions on Mobile Computing (TMC)*, vol.21, no.5, pp.1751-1765, May 2022 (IF:7.9, JCR Q1, **CCF A**)

[16] J. Luo, J. Song, F. Zheng, **Lin Gao**, and T. Wang, "User-Centric UAV Deployment and Content Placement in Cache-Enabled Multi-UAV Networks," *IEEE Transactions on Vehicular Technology (TVT)*, vol.71, no.5, pp.5656-5660, May 2022 (IF:6.8, JCR Q1)

[17] T. Wang, Y. Shen, **Lin Gao**[*], Y. Jiang, X. Zhu, and F. Zheng, "Long-Term Energy Consumption and Transmission Delay Tradeoff in Wireless-Powered Body Area Networks," *IEEE Internet of Things Journal (IOT)*, vol.9, no.6, pp.4051-4064, March 2022 (IF:10.6, JCR Q1, CCF C)

[18] Z. Wang[†], **Lin Gao**, and J. Huang, "Location-Flexible Mobile Data Service in Overseas Market," *IEEE Transactions on Mobile Computing (TMC)*, vol.21, no.2, pp.629-643, February 2022 (IF:7.9, JCR Q1, **CCF A**)

[19] T. Wang, Y. Shen, **Lin Gao**[*], Y. Jiang[*], T. Ma, and X. Zhu, "Energy Consumption Minimization with Throughput Heterogeneity in Wireless-Powered Body Area Networks," *IEEE Internet of Things Journal (IOT)*, vol.8, no.5, pp.3369-3383, March 2021 (IF:10.6, JCR Q1, CCF C)

[20] T. Wang, X. Yang, F. Deng, **Lin Gao**, Y. Jiang, and Z. Yang, "Joint Power and Duty-Cycle Design Using Alternating Optimization Algorithm under Energy Harvesting Architectures," *China Communications*, vol.17, no.12, pp.139-155, December 2020 (IF:4.1, JCR Q2)

[21] C. Liu, Y. Zhang, T. Zhang, X. Wu, **Lin Gao**, and Q. Zhang, "High Throughput Vehicle Coordination Strategies at Road Intersections," *IEEE Transactions on Vehicular Technology (TVT)*, vol.69, no.12, pp.14341-14354, December 2020 (IF:6.8, JCR Q1)

[22] T. Wang, Z. Yan, **Lin Gao**[*], Y. Jiang[*], T. Ma, and Z. Yang, "A Novel Graphics-Based Multi-Epoch Power Adjustment Strategy for WPCNs," *IEEE Transactions on Vehicular Technology (TVT)*, vol.69, no.11, pp.14093- 14098, November 2020 (IF:6.8, JCR Q1)

[23] C. Jiang, **Lin Gao**[*], T. Wang, Y. Jiang, and J. Li, "Crowd-MECS: A Novel Crowdsourcing Framework for Mobile Edge Caching and Sharing," *IEEE Internet of Things Journal (IOT)*, vol.7, no.10, pp.9426-9440, October 2020 (IF:10.6, JCR Q1, CCF C)

[24] Z. Wang[†], **Lin Gao**, and J. Huang, "Multi-Cap Optimization for Wireless Data Plans with Time Flexibility," *IEEE Transactions on Mobile Computing (TMC)*, vol.19, no.9, pp.2145-2159, September 2020 (IF:7.9, JCR Q1, **CCF A**)

[25] Z. Wang[†], **Lin Gao**, and J. Huang, "Duopoly Competition for Mobile Data Plans with Time Flexibility," *IEEE Transactions on Mobile Computing (TMC)*, vol.19, no.6, pp.1286-1298, June 2020 (IF:7.9, JCR Q1, **CCF A**)

[26] M. Tang[†], **Lin Gao**, and J. Huang, "Communication, Computation, and Caching Resource Sharing for Internet-of-Things," *IEEE Communications Magazine*, vol.58, no.4, pp.75-80, April 2020 (IF:11.2, JCR Q1)

[27] Z. Wang[†], **Lin Gao**, J. Huang, and B. Shou, "Toward Flexible Wireless Data Services," *IEEE Communications Magazine*, vol.57, no.12, pp.25-30, December 2019 (IF:11.2, JCR Q1)

[28] S. Gong, **Lin Gao**, J. Xu, Y. Guo, D.T. Hoang, and D. Niyato, "Exploiting Backscatter-Aided Relay Communications With Hybrid Access Model in Device-to-Device Networks," *IEEE Transactions on Cognitive Communications and Networks (TCCN)*, vol.5, no.4, pp.835-848, December 2019 (IF:8.6, JCR Q1)

[29] Z. Wang[†], **Lin Gao**, and J. Huang, "Exploring Time Flexibility in Wireless Data Plans," *IEEE Transactions on Mobile Computing (TMC)*, vol.18, no.9, pp.2048-2061, September 2019 (IF:7.9, JCR Q1, **CCF A**)

[30] M. Zhang[†], **Lin Gao**, J. Huang, and M. Honig, "Hybrid Pricing for Mobile Collaborative Internet," *IEEE/ACM Transactions on Networking (TON)*, vol.27, no.3, pp.986-999, June 2019 (IF:3.7, JCR Q1, **CCF A**)

[31] D. Li, **Lin Gao**, X. Sun, F. Hou, and S. Gong, "A Cellular Backhaul Virtualization Market Design for Green Small-Cell Networks," *IEEE Transactions on Green Communications and Networking (TGCN)*, vol.3, no.2, pp.468-482, June 2019 (IF:4.8, JCR Q1)

[32] Y. Wei[†], J. Yu[†], T. M. Lok, and **Lin Gao**[∗], "A Novel Mobile Data Contract Design with Time Flexibility," *IEEE Transactions on Mobile Computing (TMC)*, vol.18, no.5, pp.986-999, May 2019 (IF:7.9, JCR Q1, **CCF A**)

[33] T. Wang, F. Long, T. Ma, **Lin Gao**[∗], Y. Jiang, and L. Chang, "Low-complexity Matrix-based Conjugate Gradient Channel Estimation for Cooperative Wireless Sensor Networks," *IEEE Transactions on Vehicular Technology (TVT)*, vol.68, no.4, pp.4078-4083, April 2019 (IF:6.8, JCR Q1)

[34] **Lin Gao**, M. Tang, H. Pang, J. Huang, and L. Sun, "Multi-User Cooperative Mobile Video Streaming: Performance Analysis and Online Mechanism Design," *IEEE Transactions on Mobile Computing (TMC)*, vol.18, no.2, pp.376-389, February 2019 (IF:7.9, JCR Q1, **CCF A**)

[35] J. Xu, Y. Zou, S. Gong, **Lin Gao**, D. Niyato, and W. Cheng, "Robust Transmissions in Wireless Powered Multi-Relay Networks with Channel Interference Constraints," *IEEE Transactions on Communications (TCOM)*, vol.67, no.2, pp.973-987, February 2019 (IF:8.3, JCR Q1, **CCF B**)

[36] L. Sun, H. Pang[†], and **Lin Gao**, "Joint Sponsor Scheduling in Cellular and Edge Caching Networks for Mobile Video Delivery," *IEEE Transactions on Multimedia (TMM)*, vol.20, no.12, pp.3414-3427, December 2018 (IF:7.3, JCR Q1, **CCF B**)

[37] M. Tang[†], **Lin Gao**[∗], and J. Huang, "Enabling Edge Cooperation in Tactile Internet via 3C Resource Sharing," *IEEE Journal on Selected Areas in Communications (JSAC)*, vol.36, no.11, pp.2444-2454, November 2018 (IF:16.4, JCR Q1, **CCF A**)

[38] M. Tang[†], H. Pang[†], S. Wang[†], **Lin Gao**, J. Huang, and L. Sun, "Multi-Dimensional Auction Mechanisms for Crowdsourced Mobile Video Streaming," *IEEE/ACM Transactions on Networking (TON)*, vol.26, no.5, pp.2062-2075, October 2018 (IF:3.7, JCR Q1, **CCF A**)

[39] Q. Ma[†], **Lin Gao**[∗], Y.F. Liu, and J. Huang, "Incentivizing Wi-Fi Network Crowdsourcing: A Contract Theoretic Approach," *IEEE/ACM Transactions on Networking (TON)*, vol.26, no.3, pp.1035-1048, June 2018 (IF:3.7, JCR Q1, **CCF A**)

[40] C. Jiang[†], **Lin Gao**, L. Duan, and J. Huang, "Data-Centric Mobile Crowdsensing," *IEEE Transactions on Mobile Computing (TMC)*, vol.17, no.6, pp.1275-1288, June 2018 (IF:7.9, JCR Q1, **CCF A**)

[41] C. Jiang[†], **Lin Gao**, L. Duan, and J. Huang, "Scalable Mobile Crowdsensing via Peer-to-Peer Data Sharing," *IEEE Transactions on Mobile Computing (TMC)*, vol.17, no.4, pp.898-912, April 2018 (IF:7.9, JCR Q1, **CCF A**)

[42] X. Chen, L. Pu, **Lin Gao**[∗], W. Wu, and D. Wu, "Exploiting Massive D2D Collaboration for Energy-Efficient Mobile Edge Computing," *IEEE Wireless Communications*, vol.24, no.4, pp.64-71, August 2017 (IF:12.9, JCR Q1; Google Scholar Citations: **54**, **ESI Highly Cited Paper**)

[43] H. Yu[†], M.H. Cheung, G. Iosifidis, **Lin Gao**, L. Tassiulas, and J. Huang, "Mobile Data Offloading for Green Wireless Networks," *IEEE Wireless Communications*, vol.24, no.4, pp.31-37, August 2017 (IF:12.9, JCR Q1)

[44] H. Yu[†], M.H. Cheung, **Lin Gao**, and J. Huang, "Public Wi-Fi Monetization via Advertising," *IEEE/ACM Transactions on Networking (TON)*, vol.25, no.4, pp.2110-2121, August 2017 (IF:3.7, JCR Q1, **CCF A**)

[45] Q. Ma[†], **Lin Gao**[∗], Y.F. Liu, and J. Huang, "Economic Analysis of Crowdsourced Wireless Community Networks," *IEEE Transactions on Mobile Computing (TMC)*, vol.16, no.7, pp.1856-1869, July 2017 (IF:7.9, JCR Q1, **CCF A**)

[46] G. Iosifidis, **Lin Gao**, J. Huang, and L. Tassiulas, "Efficient and Fair Collaborative Mobile Internet Access," *IEEE/ACM Transactions on Networking (TON)*, vol.25, no.3, pp.1386-1400, June 2017 (IF:3.7, JCR Q1, **CCF A**)

[47] M. Tang[†], **Lin Gao**, H. Pang, J. Huang, and L. Sun, "Optimizations and Economics of Crowdsourced Mobile Streaming," *IEEE Communications Magazine*, vol.55, no.4, pp.21-27, April 2017 (IF:11.2, JCR Q1)

[48] **Lin Gao**, L. Duan, and J. Huang, "Two-Sided Matching Based Cooperative Spectrum Sharing," *IEEE Transactions on Mobile Computing (**TMC**)*, vol.16, no.2, pp.538-551, February 2017 (IF:7.9, JCR Q1, **CCF A**; Google Scholar Citations: **30**, **ESI Highly Cited Paper**)

[49] **Lin Gao**, B. Shou, Y. Chen, and J. Huang, "Combining Spot and Futures Markets: A Hybrid Market Approach to Dynamic Spectrum Access," ***Operations Research (OR)***, vol.64, no.4, pp.794–821, July 2016 (IF:3.924, JCR Q2, A^+ **Journal** in the area of Management Science & Operations Research)

[50] Y. Luo[†], **Lin Gao**, and J. Huang, "An Integrated Spectrum and Information Market for Green Cognitive Communications," *IEEE Journal on Selected Areas in Communications (**JSAC**)*, vol.34, no.12, pp.3326-3338, December 2016 (IF:16.4, JCR Q1, **CCF A**)

[51] Y. Luo[†], **Lin Gao**, and J. Huang, "MINE GOLD to Deliver Green Cognitive Communications," *IEEE Journal on Selected Areas in Communications (**JSAC**)*, vol.33, no.12, pp.2749-2760, December 2015 (IF:16.4, JCR Q1, **CCF A**)

[52] Y. Luo[†], **Lin Gao**, and J. Huang, "Spectrum Reservation Contract Design in TV White Space Networks," *IEEE Transactions on Cognitive Communications and Networks (**TCCN**) (**Invited Paper**)*, vol.1, no.2, pp.147-160, November 2015 (IF:8.6, JCR Q1)

[53] Y. Luo[†], **Lin Gao**, and J. Huang, "Business Modeling for TV White Space Networks," *IEEE Communications Magazine*, vol.53, no.5, pp.82-88, May 2015 (IF:11.2, JCR Q1)

[54] **Lin Gao**, G. Iosifidis, J. Huang, L. Tassiulas, and D. Li, "Bargaining-based Mobile Data Offloading," *IEEE Journal on Selected Areas in Communications (**JSAC**)*, vol.32, no.6, pp.1114-1125, June 2014 (IF:16.4, JCR Q1, **CCF A**; Google Scholar Citations: **105**)

[55] Y. Luo[†], **Lin Gao**, and J. Huang, "Price and Inventory Competition in Oligopoly TV White Space Markets," *IEEE Journal on Selected Areas in Communications (**JSAC**)*, vol.33, no.5, pp.1002-1013, Oct 2014 (IF:16.4, JCR Q1, **CCF A**; Google Scholar Citations: **34**)

[56] G. Iosifidis, **Lin Gao**, J. Huang, and L. Tassiulas, "A Double Auction Mechanism for Mobile Data Offloading Markets," *IEEE/ACM Transactions on Networking (**TON**)*, vol.23, no.5, pp.1634-1647, Sept 2014 (IF:3.7, JCR Q1, **CCF A**; Google Scholar Citations: **122**)

[57] G. Iosifidis, **Lin Gao**, J. Huang, and L. Tassiulas, "Incentive Mechanisms for User-Provided Networks," *IEEE Communications Magazine*, vol.52, no.9, pp.20-27, September 2014 (IF:11.2, JCR Q1; Google Scholar Citations: **49**)

[58] L. Duan, **Lin Gao**, and J. Huang, "Cooperative Spectrum Sharing: A Contract-Based Approach," *IEEE Transactions on Mobile Computing (**TMC**)*, vol.13, no.1, pp.174-187, January 2014 (IF:7.9, JCR Q1, **CCF A**; Google Scholar Citations: **173**, **ESI Highly Cited Paper**)

[59] **Lin Gao**, J. Huang, Y. Chen, and B. Shou, "An Integrated Contract and Auction Design for Secondary Spectrum Trading," *IEEE Journal on Selected Areas in Communications (**JSAC**)*, vol.31, no.3, pp.581-592, March 2013 (IF:16.4, JCR Q1, **CCF A**; Google Scholar Citations: **71**)

[60] **Lin Gao**, X. Wang, Y. Xu, and Q. Zhang, "Spectrum Trading in Cognitive Radio Networks: A Contract-Theoretic Modeling Approach," *IEEE Journal on Selected Areas in Communications (**JSAC**)*, vol.29, no.4, pp.843-855, April 2011 (IF:16.4, JCR Q1, **CCF A**; Google Scholar Citations: **295**)

[61] **Lin Gao**, Y. Xu, and X. Wang, "MAP: Multi-Auctioneer Progressive Auction for Dynamic Spectrum Access," *IEEE Transactions on Mobile Computing (**TMC**)*, vol.10, no.8, pp.1144-1161, November 2011 (IF:7.9, JCR Q1, **CCF A**; Google Scholar Citations: **211**)

[62] L. Qian, F. Ye, **Lin Gao**, X. Gan, T. Chu, X. Tian, X. Wang, and M. Guizani, "Spectrum Trading in Cognitive Radio Networks: An Agent-Based Model under Demand Uncertainty," *IEEE Transactions on Communications (**TCOM**)*, vol.59, no.11, pp.3192-3203, October 2011 (IF:8.3, JCR Q1, **CCF B**; Google Scholar Citations: **43**)

[63] H. Yu, **Lin Gao**, Z. Li, X. Wang, and E. Hossain, "Pricing for Uplink Power Control in Cognitive Radio Networks," *IEEE Transactions on Vehicular Technology (**TVT**)*, vol.59, no.4, pp.1769-1778, Jan 2010 (IF:6.8, JCR Q1; Google Scholar Citations: **119**)

[64] **Lin Gao**, X. Wang, and Y. Xu, "Multiradio Channel Allocation in Multihop Wireless Networks," *IEEE Transactions on Mobile Computing (**TMC**)*, vol.8, no.11, pp.1454-1468, May 2009 (IF:7.9, JCR Q1, **CCF A**; Google Scholar Citations: **39**)

Conference (name[†] denotes student that I supervise/co-supervise.)

Summary: 61 out of 96 conference papers are published in CCF A/B/C conference proceedings.

[65] L. Ye[†], Z. Xiong, J. Luo, and **Lin Gao**[*], "LBFL: Lightweight Blockchain-enabled Federated Learning via DPoS Consensus," *IEEE International Conference on Communications (ICC)*, Montreal, Canada, June 2025 (CCF C)

[66] X. Zhuang[†], J. Wu[†], H. Wu, M. Tang, and **Lin Gao**[*], "QoS-Driven Hybrid Inference Scheme for Generative Diffusion Models in MEC-Enabled AI-Generated Content Networks," *IEEE International Conference on Communications (ICC)*, Montreal, Canada, June 2025 (CCF C)

[67] Y. Xiao, J. Cao, H. Wang, Z. Wang, H. Wang, Z. Wang, Y. Qi, X. Chen, X. Li, **Lin Gao**, F. Hou, and J. Huang, "Distributionally Robust Optimization for Energy Efficiency in Heterogeneous Wireless Networks," *IEEE International Conference on Communications (ICC)*, Montreal, Canada, June 2025 (CCF C)

[68] X. Zhuang[†], J. Wu[†], H. Wu, T. Zhang, and **Lin Gao**[*], "Joint Optimization of Model Inferencing and Task Offloading for MEC-Empowered Large Vision Model Services," *IEEE International Conference on Computer Communications (**INFOCOM**)*, London, United Kingdom, May 2025 (**CCF A**)

[69] L. Ye[†], X. Xiu, Z. Xiong, and **Lin Gao**[*], "Joint Resource Pricing and Quality Control for Cloud Mining Services in Blockchain Networks: A Game-Theoretic Analysis," *IEEE Global Communications Conference (GLOBECOM)*, Cape Town, South Africa, December 2024 (CCF C)

[70] W. Zhang[†], J. Luo, F.-C. Zheng, and **Lin Gao**, "Improving Resource Allocation for eMBB and URLLC: Caching at the Edge," *IEEE Global Communications Conference (GLOBECOM)*, Cape Town, South Africa, December 2024 (CCF C)

[71] H. Liu[†], J. Wu[†], X. Zhuang[†], H. Wu, and **Lin Gao**[*], "Joint Communication and Computation Scheduling for MEC-enabled AIGC Services based on Generative Diffusion Model," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Seoul, South Korea, October 2024

[72] C. You[†], Z. Li, T. Wang, **Lin Gao**, and Y. Jiang, "An Efficient Cluster-Based Asynchronous Activity Detection Algorithm for Cell-Free Massive MIMO Systems," *International Conference on Wireless Communications and Signal Processing (WCSP)*, Hefei, China, October 2024

[73] Z. Wang[†], H. Wang, Z. Wang, Y. Xiao, Y. Zhao, X. Li, X. Chen, **Lin Gao**, F. Hou, and J. Huang, "Distributed Energy Optimization for Mobile Networks Using Potential Games," *IEEE International Conference on Mobile Ad-hoc and Smart Systems (MASS) (**Invited Paper**)*, Seoul, South Korea, September 2024 (CCF C)

[74] C. Jiang, J. Chen, **Lin Gao**[*], and J. Li, "FedPartial: Enabling Model-Heterogeneous Federated Learning via Partial Model Transmission and Aggregation," *IEEE International Conference on Web Services (**ICWS**)*, Shenzhen, China, July 2024 (**CCF B**)

[75] J. Wu[†], J. Luo, C. Jiang, and **Lin Gao**[*], "Multi-UAV Cooperative Search in Multi-layered Aerial Computing Networks: A Multi-Agent Deep Reinforcement Learning Approach," *IEEE International Conference on Communications (ICC)*, Denver, CO, USA, June 2024 (CCF C)

[76] J. Wu[†], J. Luo, T. Wang, and **Lin Gao**[*], "Joint Optimization of Flying Trajectory and Task Offloading for UAV-enabled MEC Networks: A Digital Twin-Assisted Hybrid Learning Approach," *IEEE Vehicular Technology Conference (VTC-Spring)*, Singapore, June 2024

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[79] J. Lin[†], J. Luo, T. Wang, and **Lin Gao**[*], "Optimizing Client and Data Selection in Federated Learning: A Centralized Optimization and Decentralized Game-Theoretic Approach," *IEEE Global Communications Conference (GLOBECOM)*, Kuala Lumpur, Malaysia, December 2023 (CCF C)

[80] H. Liu[†], Z. Wang[†], J. Wu[†], and **Lin Gao**[*], "A Stochastic Programming Approach for Joint Edge Server Deployment and Computation Offloading," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Singapore, August 2023

[81] H. Liu[†], Z. Wang[†], J. Wu[†], and **Lin Gao**[*], "Joint Optimization of Service Placement and Computation Offloading for Mobile Edge Computing," *IEEE/CIC International Conference on Communications in China (ICCC)*, Dalian, China, August 2023

[82] J. Wu[†], Z. Ye, H. Lin, T. Wang, and **<u>Lin Gao</u>**[*], "A Multi-Layer Deep Reinforcement Learning Approach for Joint Task Offloading and Scheduling in Vehicular Edge Networks," *IEEE International Conference on Communications (ICC)*, Rome, Italy, May 2023 (CCF C)

[83] N. Ding[†], **<u>Lin Gao</u>**, and J. Huang, "Joint Participation Incentive and Network Pricing Design for Federated Learning," *IEEE International Conference on Computer Communications (**INFOCOM**)*, New York, USA, May 2023 (**CCF A**, Acceptance Rate: **20%**)

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[87] Z. Wang[†], **<u>Lin Gao</u>**, and J. Huang, "Socially-Optimal Mechanism Design for Incentivized Online Learning," *IEEE International Conference on Computer Communications (**INFOCOM**)*, Online, May 2022 (**CCF A**, Acceptance Rate: **20%**)

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[90] M. Li[†], C. Jiang, **<u>Lin Gao</u>**[*], T. Wang, and Y. Jiang, "Incentivizing Mobile Edge Caching and Sharing: An Evolutionary Game Approach," *IEEE Global Communications Conference (GLOBECOM)*, Madrid, Spain, December 2021 (CCF C)

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[93] W. He[†], **<u>Lin Gao</u>**[*], and J. Luo, "A Multi-Layer Offloading Framework for Dependency-Aware Tasks in MEC," *IEEE International Conference on Communications (ICC)*, Montreal, Canada, June 2021 (CCF C)

[94] T. Nie[†], J. Luo, **<u>Lin Gao</u>**, F.-C. Zheng, and L. Yu, "Joint Service Scheduling and Content Caching Over Unreliable Channels," *IEEE Global Communications Conference (GLOBECOM)*, Taipei, Taiwan, December 2020 (CCF C)

[95] G. Zhang[†], F. Hou, **<u>Lin Gao</u>**, G. Yang, and L.X. Cai, "Nondeterministic Mobility based Incentive Mechanism for Efficient Data Collection in Crowdsensing," *IEEE Vehicular Technology Conference (VTC-Fall)*, Victoria, Canada, December 2020

[96] Y. Qi[†], J. Luo, **<u>Lin Gao</u>**, F.-C. Zheng, and L. Yu, "User Preference and Activity Aware Content Sharing in Wireless D2D Caching Networks," *IEEE/CIC International Conference on Communications in China (ICCC)*, Chongqing, China, August 2020

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[105] W. Chen[†], W. Liu, **Lin Gao**[*], S. Gong, C. Li, and K. Zhu, "Backscatter-Aided Relay Communications in Wireless Powered Hybrid Radio Networks," *IEEE Wireless Communications and Networking Conference (WCNC)*, Marrakech, Morocco, April 2019 (CCF C) (**Best Paper Award**)

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[110] F. Long[†], T. Wang, T. Ma, **Lin Gao**, Y. Jiang, and L. Chang, "Set-Membership Conjugate Gradient Channel Estimation for Wireless Sensor Networks," *International Conference on Wireless Communications and Signal Processing (WCSP)*, Hangzhou, China, October 2018

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[112] Z. Wang[†], **Lin 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](#))*, Los Angeles, USA, June 2018 (**CCF B**, Acceptance Rate: **16.9%**)

[113] H. Pang[†], **Lin Gao**, Q. Ding, J. Liu, and L. Sun,, "Competitive Analysis of Data Sponsoring and Edge Caching for Mobile Video Streaming," *ACM SIGMM Workshop on Network and Operating Systems Support for Digital Audio and Video ([NOSSDAV](#))* (co-located with ACM MMSys), Amsterdam, Netherlands, June 2018 (**CCF B**)

[114] X. Zeng[†], **Lin Gao**[*], C. Jiang, T. Wang, J. Liu, and B. Zou, "A Hybrid Pricing Mechanism for Data Sharing in P2P-based Mobile Crowdsensing," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Shanghai, China, May 2018

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[125] M. Zhang[†], **Lin Gao**, J. Huang, and M. Honig, "Cooperative and Competitive Operator Pricing for Mobile Crowdsourced Internet Access," *IEEE International Conference on Computer Communications (INFOCOM)*, Atlanta, GA, USA, May 2017 (**CCF A**, Acceptance Rate: **21%**)

[126] M. Tang[†], S. Wang, **Lin 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)*, Atlanta, GA, USA, May 2017 (**CCF A**, Acceptance Rate: **21%**)

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