

高林 (博士) 简历

联系方式

哈尔滨工业大学(深圳), 电子与信息工程学院
通讯地址: 深圳市南山区西丽深圳大学城哈工大校区L栋 (518055)
<http://faculty.hitsz.edu.cn/gaolin>

手机: (+86) 187* * * * 7272
Email: gaol@hit.edu.cn
gaolin021@hotmail.com

个人简历

- 哈尔滨工业大学 (深圳)
电子与信息工程学院, 副教授 2015年9月 – 至今
– 研究方向: 移动边缘计算和机器学习 (研究团队: 张钦宇教授)
- 香港中文大学
信息工程系, 博士后研究员 2010年8月 – 2015年8月
– 研究方向: 网络优化和网络经济学 (导师: 黄建伟教授)
- 上海交通大学
电子工程系, 博士 (通信与信息系统) 2006年9月 – 2010年7月
– 毕业论文: 基于博弈论的认知无线电动态频谱共享技术研究 (导师: 王新兵教授, 徐友云教授)
电子工程系, 硕士 (通信与信息系统) 2004年9月 – 2007年1月
– 毕业论文: MIMO-OFDM系统自适应资源分配技术研究 (导师: 徐友云教授)
- 南京邮电大学
信息工程系, 学士 1998年9月 – 2002年7月

研究方向

- 博弈论和机器学习 (Game Theory and Machine Learning)
 - 网络博弈建模和分析 (Network Game Modelling and Analysis)
 - 激励机制设计和优化 (Incentive Mechanism Design and Optimization)
 - 深度强化学习和联邦学习 (Deep Reinforcement Learning and Federated Learning)
- 移动计算和网络 (Mobile Computing and Networking)
 - 边缘计算, 边缘缓存, 边缘网络 (Edge Computing, Caching, and Networking)
 - 移动群智感知, 群智计算 (Mobile Crowdsensing and Crowd Computing)
 - 认知网络, 网络智能 (Cognitive Networking and Network Intelligence)

研究获奖

- 2016年, 第11届IEEE通信学会亚太区杰出青年研究学者奖
- 2016年, 深圳市海外高层次人才计划 (孔雀计划), C类人才
- 2019年, IEEE无线通信和网络会议 (WCNC, 摩洛哥), 最佳论文奖
- 2016年, 第35届IEEE计算机通信国际会议 (IEEE INFOCOM, 美国旧金山), 最佳论文入围奖
- 2015年, 第13届国际移动特设网络和无线网络建模与优化会议 (WiOPT, 印度孟买), 最佳学生论文奖
- 2014年, 第12届国际移动特设网络和无线网络建模与优化会议 (WiOPT, 突尼斯), 最佳论文奖
- 2013年, 第11届国际移动特设网络和无线网络建模与优化会议 (WiOPT, 日本东京), 最佳论文奖
- 2012-2015年, 香港中文大学, 网络通信和经济学实验室 (NCEL), 连续三年获得年度最佳研究员

任教经历

- 《随机网络优化理论》, 32学时 (英文授课), 主讲教师 2016年 – 至今
– 哈尔滨工业大学(深圳) 电子与信息工程学院, 研究生课程
- 《通信基础电路设计》, 80学时, 主讲教师 2018年 – 至今
– 哈尔滨工业大学(深圳) 电子与信息工程学院, 本科生课程 (必修)
- 《通信原理实验》, 48学时, 主讲教师 2018年 – 至今
– 哈尔滨工业大学(深圳) 电子与信息工程学院, 本科生课程 (必修)
- “Networks: Technology, Economics, and Social Interactions”, 客座讲师 2013
– 香港中文大学信息工程系, 本科生&研究生课程
- “Network Economics”, 客座讲师 2011
– 香港中文大学信息工程系, 本科生&研究生课程

科研项目

- 主持, 深圳市科技计划基础研究面上项目, “移动边缘计算网络智能协同优化”, 2020.02–2023.02, ¥30万
- 主持, 国家自然科学基金面上项目, “多维边缘网络资源协同优化与运营”, 2020.01–2023.12, ¥60万
- 主持, 国家自然科学基金面上项目, “多样化电磁频谱资源的复用机理及生态”, 2018.01–2018.12, ¥16万
- 主持, 新引进高端人才科研项目, “多维动态频谱共享与频谱大数据”, 2017.01–2019.12, ¥300万
- 主持, 哈尔滨工业大学科研创新基金, “白频谱网络生态研究”, 2017.01–2019.12, ¥10万
- 主持, 哈尔滨工业大学新教师科研启动基金, “电视白频谱网络优化与经济”, 2015.09–2017.12, ¥20万

学术经历

- 会员资格
 - Senior Member, IEEE & IEEE Communications Society
- 期刊编辑 (Editorship)
 - Associate Editor, IEEE Transactions on Network Science and Engineering, 2021–Now
 - Associate Editor, China Communications, 2016–Now
 - Associate 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
- 学术会议主席 (Chairing)
 - Vice Chair of IEEE Technical Committee on Cognitive Networks (TCCN), 2020–2022
 - Symposium Chair (Mobile and Wireless Networks) of IEEE ICC 2020, Virtual Conference, May 2020
 - TPC Vice Chair of WiOpt 2018, Shanghai, China, May 2018
 - Publicity & Social Media Chair of GameNets 2017, Tennessee, USA, May 2017
 - Publicity Chair of GSNC 2016, San Francisco, USA, April 2016
 - Publicity Chair of SDP 2015, Hong Kong, April 2015
 - Symposium Chair (Pricing and Network Optimization) of GameNets 2014, Beijing, China, Nov 2014
- 学术会议技术委员会成员 (TPC)
 - 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
- 技术审稿人 (Technical Reviewers)
 - IEEE Journal on Selected Areas in Communications (JSAC)
 - IEEE Transactions on Mobile Computing (TMC)
 - IEEE/ACM Transactions on Networking (TON)
 - IEEE Transactions on Wireless Communications (TWC)
 - IEEE Transactions on Communications (TCOM)
 - IEEE Transactions on Vehicular Technology (TVT)
 - IEEE Communications Magazine
 - Conferences: ACM MobiHoc, IEEE INFOCOM, ICC, GLOBECOM, DySPAN, WCNC, WiOpt

Google Scholar Citations (Dec 2020)

- Total Citations: **3345** (H-index: **26**, i10-index: **58**)
- Citations of the Most Cited Paper: **349**
- url: <https://scholar.google.com/citations?user=41wcJi4AAAAJ&hl=en>

Book

- [1] G. Iosifidis, **Lin Gao**, J. Huang, and L. Tassiulas, "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] 徐友云, 李大鹏, 钟卫, **高林**, 认知无线网络资源分配—博弈模型与性能分析, 电子工业出版社, 2013年10月 (ISBN: 9787121212420, 总页数: 256页)

Journal (Name* 表示通讯作者, Name[†] 表示学生)

总计: 共发表 **52** 篇期刊论文, 其中 **27** 篇发表于 **CCF A类期刊**, **50** 篇发表于**JCR 1区期刊**。

- [1] 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)*, 2022, forthcoming (影响因子5.379, JCR 1区)
- [2] Z. Wang[†], **Lin Gao**^{*}, T. Wang, and J. Luo, "Monetizing Edge Service in Mobile Internet Ecosystem," *IEEE Transactions on Mobile Computing (TMC)*, 2020, forthcoming (影响因子5.112, JCR 1区, **CCF A类期刊**)
- [3] 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, August 2021 (影响因子9.936, JCR 1区)
- [4] 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 (影响因子9.936, JCR 1区)
- [5] 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 (影响因子5.379, JCR 1区)
- [6] 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 (影响因子5.379, JCR 1区)
- [7] 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 (影响因子9.936, JCR 1区)
- [8] 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, August 2020 (影响因子5.112, JCR 1区, **CCF A类期刊**)
- [9] 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 (影响因子11.052, JCR 1区)

- [10] 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 (影响因子2.688, JCR 3区)
- [11] C. Zhang, H. Pang, **Lin Gao**, Q. Ding, Y. Yang, and L. Sun, "Incentivizing Mobile Video Users With Data Sponsoring and Edge Caching," *IEEE Access*, vol.8, pp.9640-9654, January 2020 (影响因子3.745, JCR 1区)
- [12] Z. Wang[†], **Lin Gao**, J. Huang, and B. Shou, "Towards Flexible Wireless Data Services," *IEEE Communications Magazine*, vol.57, no.12, pp.25-30, December 2019 (影响因子11.052, JCR 1区)
- [13] 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, June 2019 (影响因子5.112, JCR 1区, **CCF A类期刊**)
- [14] 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, April 2019 (影响因子5.112, JCR 1区, **CCF A类期刊**)
- [15] 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, April 2019 (影响因子3.315, JCR 1区, **CCF A类期刊**)
- [16] 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, June 2019 (影响因子4.574, JCR 1区)
- [17] F. Long[†], T. Wang, 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, February 2019 (影响因子5.379, JCR 1区)
- [18] 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 2018 (影响因子5.112, JCR 1区, **CCF A类期刊**)
- [19] 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, July 2018 (影响因子5.112, JCR 1区, **CCF A类期刊**)
- [20] 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, October 2018 (影响因子11.420, JCR 1区, **CCF A类期刊**)
- [21] 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, October 2018 (影响因子5.646, JCR 1区, **CCF B类期刊**)
- [22] 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, August 2018 (影响因子3.315, JCR 1区, **CCF A类期刊**)
- [23] **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, May 2018 (影响因子5.112, JCR 1区, **CCF A类期刊**)
- [24] 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, May 2018 (影响因子6.051, JCR 1区, **CCF B类期刊**)
- [25] 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, April 2018 (影响因子3.315, JCR 1区, **CCF A类期刊**)
- [26] D. Li, P. Deng, Y. Xu, **Lin Gao**, and G. Zhang, "Joint Access Spectrum and Backhaul Energy Allocation for Green Cognitive Heterogeneous Networks," *IEEE Access*, vol.6, pp.24793-24808, January 2018 (影响因子3.745, JCR 1区)
- [27] 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, October 2017 (影响因子5.112, JCR 1区, **CCF A类期刊**)
- [28] 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, August 2017 (影响因子5.112, JCR 1区, **CCF A类期刊**)

- [29] 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 (影响因子11.052, JCR 1区)
- [30] 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 (影响因子11.391, JCR 1区; Google Scholar Citations: **54**, **ESI Highly Cited Paper**)
- [31] 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 (影响因子11.391, JCR 1区)
- [32] D. Li, H. Zhao, **Lin Gao**, and H. Zhu, “M2M Access With Dynamic Cognitive Virtual Operators: A Data Aggregator’s Perspective,” *IEEE Access*, vol.5, pp.5662-5677, April 2017 (影响因子3.745, JCR 1区)
- [33] 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, March 2017 (影响因子3.315, JCR 1区, **CCF A类期刊**)
- [34] 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, January 2017 (影响因子3.315, JCR 1区, **CCF A类期刊**)
- [35] **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 (影响因子5.112, JCR 1区, **CCF A类期刊**; Google Scholar Citations: **30**, **ESI Highly Cited Paper**)
- [36] **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 (影响因子2.430, JCR 2区, **A⁺ Journal** in the area of Management Science & Operations Research)
- [37] 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, September 2016 (影响因子5.112, JCR 1区, **CCF A类期刊**)
- [38] 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 (影响因子11.420, JCR 1区, **CCF A类期刊**)
- [39] 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 (影响因子11.420, JCR 1区, **CCF A类期刊**)
- [40] 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 (影响因子4.574, JCR 1区)
- [41] 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 (影响因子11.052, JCR 1区)
- [42] **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 (影响因子11.420, JCR 1区, **CCF A类期刊**; Google Scholar Citations: **105**)
- [43] 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 (影响因子11.420, JCR 1区, **CCF A类期刊**; Google Scholar Citations: **34**)
- [44] 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 (影响因子3.315, JCR 1区, **CCF A类期刊**; Google Scholar Citations: **122**)
- [45] 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 (影响因子11.052, JCR 1区; Google Scholar Citations: **49**)
- [46] 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 (影响因子5.112, JCR 1区, **CCF A类期刊**; Google Scholar Citations: **173**, **ESI Highly Cited Paper**)
- [47] **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 (影响因子11.420, JCR 1区, **CCF A类期刊**; Google Scholar Citations: **71**)

- [48] **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 (影响因子11.420, JCR 1区, **CCF A类期刊**; Google Scholar Citations: **295**)
- [49] **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 (影响因子5.112, JCR 1区, **CCF A类期刊**; Google Scholar Citations: **211**)
- [50] 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 (影响因子5.646, JCR 1区, **CCF B类期刊**; Google Scholar Citations: **43**)
- [51] 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 (影响因子5.379, JCR 1区; Google Scholar Citations: **119**)
- [52] **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 (影响因子5.112, JCR 1区, **CCF A类期刊**; Google Scholar Citations: **39**)

Conference (Name* 表示通讯作者, Name[†] 表示学生)

总计: 共发表 70 篇会议论文, 其中 46 篇发表于 CCF A/B/C类会议。

- [53] Z. Wang[†], **Lin Gao**, and J. Huang, "Socially-Optimal Mechanism Design for Incentivized Online Learning," *IEEE International Conference on Computer Communications (INFOCOM)*, Online, May 2022 (**CCF A类会议**, Acceptance Rate: **20%**)
- [54] N. Ding[†], **Lin Gao**, J. Huang, X. Li, and X. Chen, "Optimal Pricing Under Vertical and Horizontal Interaction Structures for IoT Networks," *IEEE International Conference on Computer Communications (INFOCOM)*, Online, May 2022 (**CCF A类会议**, Acceptance Rate: **20%**)
- [55] J. Wu[†], H. Lin, H. Liu, and **Lin Gao***, "A Deep Reinforcement Learning Approach for Collaborative Mobile Edge Computing," *IEEE International Conference on Communications (ICC)*, Seoul, South Korea, May 2022 (**CCF C类会议**)
- [56] M. Li[†], C. Jiang, **Lin Gao***, 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类会议**)
- [57] Z. Chen, Q. Ma, **Lin Gao**, and X. Chen, "Edgeconomics: Price Competition and Selfish Computation Offloading in Multi-Server Edge Computing Networks," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Online, October 2021
- [58] Z. Wang[†], **Lin Gao**, and J. Huang, "Taming Time-Varying Information Asymmetry in Fresh Status Acquisition," *IEEE International Conference on Computer Communications (INFOCOM)*, Online, May 2021 (**CCF A类会议**, Acceptance Rate: **20%**)
- [59] W. He[†], **Lin Gao***, 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类会议**)
- [60] T. Nie[†], J. Luo, **Lin Gao**, 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类会议**)
- [61] Z. Wang[†], **Lin Gao**, and J. Huang, "Travel with Your Mobile Data Plan: A Location-Flexible Data Service," *IEEE International Conference on Computer Communications (INFOCOM)*, Toronto, Canada, July 2020 (**CCF A类会议**, Acceptance Rate: **20%**)
- [62] Y. Pan[†], **Lin Gao***, J. Luo, T. Wang, and J. Luo, "A Multi-Dimensional Resource Crowdsourcing Framework for Mobile Edge Computing," *IEEE International Conference on Communications (ICC)*, Dublin, Ireland, June 2020 (**CCF C类会议**)
- [63] C. Jiang, **Lin Gao***, T. Wang, J. Luo and F. Hou, "On Economic Viability of Mobile Edge Caching," *IEEE International Conference on Communications (ICC)*, Dublin, Ireland, June 2020 (**CCF C类会议**)
- [64] L. Zhang[†], J. Luo, **Lin Gao**, and F.-C. Zheng, "Learning-Based Computation Offloading for Edge Networks with Heterogeneous Resources," *IEEE International Conference on Communications (ICC)*, Dublin, Ireland, June 2020 (**CCF C类会议**)

- [65] Z. Wang[†], **Lin Gao**, J. Huang, and B. Shou, “Economic Viability of Data Trading with Rollover,” *IEEE International Conference on Computer Communications (INFOCOM)*, Paris, France, May 2019 (CCF A类会议, Acceptance Rate: **20%**)
- [66] C. Jiang[†], **Lin Gao**^{*}, J. Luo, and S. Gong, “Crowdsourcing for Mobile Edge Caching: A Game-Theoretic Analysis,” *IEEE International Conference on Communications (ICC)*, Shanghai, China, May 2019 (CCF C类会议)
- [67] X. Luo[†], J. Xu, Y. Zou, S. Gong, **Lin Gao**^{*}, and D. Niyato, “Collaborative Relay Beamforming with Direct Links in Wireless Powered Communications,” *IEEE Wireless Communications and Networking Conference (WCNC)*, Marrakech, Morocco, April 2019 (CCF C类会议)
- [68] 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类会议) (**Best Paper Award**)
- [69] H. Lin[†], X. Zhu, Y. Jiang, Y. Liu, Y. Zhuang, and **Lin Gao**, “PA-Efficiency-Aware Hybrid PAPR Reduction for F-OFDM Systems with ICA Based Blind Equalization,” *IEEE Wireless Communications and Networking Conference (WCNC)*, Marrakech, Morocco, April 2019 (CCF C类会议)
- [70] H. Duan[†], Y. Jiang, X. Zhu, Z. Wei, Y. Liu, and **Lin Gao**, “Treating Self-Interference as Source: An ICA Assisted Full-Duplex Relay System,” *IEEE Wireless Communications and Networking Conference (WCNC)*, Marrakech, Morocco, April 2019 (CCF C类会议)
- [71] W. Chen[†], C. Li, S. Gong, **Lin Gao**, and J. Xu, “Joint Transmission Scheduling and Power Allocation in Wirelessly Powered Hybrid Radio Networks,” *International Conference on Computing, Networking and Communications (ICNC)*, Honolulu, Hawaii, USA, February 2019
- [72] Y. Zhong[†], **Lin Gao**^{*}, T. Wang, S. Gong, B. Zou, and D. Yu, “Achieving Stable and Optimal Passenger-Driver Matching in Ride-Sharing System,” *IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, Chengdu, China, October 2018 (CCF C类会议)
- [73] 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
- [74] 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类会议, Acceptance Rate: **16.9%**)
- [75] 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类会议)
- [76] 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
- [77] J. Liu[†], **Lin Gao**^{*}, T. Wang, X. Zeng, W. Lu, Y. Zhong, “Crowdsourcing: A Novel Approach to Organizing WiFi Community Networks,” *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Shanghai, China, May 2018
- [78] Z. Wang[†], **Lin Gao**, and J. Huang, “Pricing Competition of Rollover Data Plan,” *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Shanghai, China, May 2018
- [79] S. Gong, J. Xu, **Lin Gao**, X. Huang, and W. Liu, “Passive Relaying Scheme via Backscatter Communications in Cooperative Wireless Networks,” *IEEE Wireless Communications and Networking Conference (WCNC)*, Barcelona, Spain, April 2018 (CCF C类会议)
- [80] **Lin Gao** and J. Huang, “Achieving an Efficient and Fair Equilibrium Through Taxation,” *Asia-Pacific Conference on Communications (APCC)* (**Invited Paper**), Perth, Australia, December 2017
- [81] M. Tang[†], **Lin Gao**, and J. Huang, “A General Framework for Crowdsourcing Mobile Communication, Computation, and Caching,” *IEEE Global Communications Conference (GLOBECOM)*, Singapore, December 2017 (CCF C类会议)
- [82] H. Pang[†], **Lin Gao**, Q. Ding, and L. Sun, “When Data Sponsoring Meets Edge Caching: A Game-Theoretic Analysis,” *IEEE Global Communications Conference (GLOBECOM)*, Singapore, December 2017 (CCF C类会议)

- [83] X. Mo[†], Z. Li[†], **Lin Gao**^{*}, B. Cao, T. Zhang, and T. Wang, “User-Centric Participatory Sensing: A Game Theoretic Analysis,” *IEEE Global Communications Conference (GLOBECOM)*, Singapore, December 2017 (CCF C类会议)
- [84] X. Zhang[†], **Lin Gao**^{*}, B. Cao, Z. Li, and M. Wang, “A Double Auction Mechanism for Mobile Crowd Sensing with Data Reuse,” *IEEE Global Communications Conference (GLOBECOM)*, Singapore, December 2017 (CCF C类会议)
- [85] C. Lou[†], B. Cao, **Lin Gao**, L. Sun, and Q. Zhang, “MOSTPC: Performance of A Massive Oblique Space-TimePolarization Precoding System over Ricean-K Fading Channel,” *IEEE Vehicular Technology Conference (VTC)*, Toronto, Canada, September 2017
- [86] Z. Wang[†], **Lin Gao**, and J. Huang, “A Contract-Theoretic Design of Mobile Data Plan with Time Flexibility,” *ACM Workshop on the Economics of Networks, Systems and Computation (NetEcon)* (in conjunction with ACM EC), MIT, Cambridge, MA, USA, June 2017
- [87] 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类会议, Acceptance Rate: **21%**)
- [88] 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类会议, Acceptance Rate: **21%**)
- [89] Z. Wang[†], **Lin Gao**, and J. Huang, “Pricing Optimization of Rollover Data Plan,” *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Paris, France, May 2017
- [90] Y. Gao[†], X. Zhang[†], X. Mo[†], and **Lin Gao**^{*}, “An Evolutionary Game Theoretic Analysis for Crowdsourced WiFi Networks,” *IEEE International Conference on Communications (ICC)*, Paris, France, May 2017 (CCF C类会议)
- [91] C. Jiang[†], **Lin Gao**, L. Duan, and J. Huang, “Exploiting Data Reuse in Mobile Crowdsensing,” *IEEE Global Communications Conference (GLOBECOM)*, Washington, DC, USA, December 2016 (CCF C类会议)
- [92] H. Pang[†], **Lin Gao**, and L. Sun, “Joint Optimization of Data Sponsoring and Edge Caching for Mobile Video Delivery,” *IEEE Global Communications Conference (GLOBECOM)*, Washington, DC, USA, December 2016 (CCF C类会议)
- [93] Y. Wei[†], J. Yu[†], T.M. Lok, and **Lin Gao**^{*}, “A Novel Mobile Data Plan Design from the Perspective of Data Period,” *IEEE International Conference on Communication Systems (ICCS)*, Shenzhen, China, December 2016
- [94] S. Zuo[†], **Lin Gao**, H. Xu, and T. Zhang, “Power Allocation Game for Wireless Network Localization,” *IEEE International Conference on Ubiquitous Wireless Broadband (ICUWB)* (*Invited Paper*), Nanjing, China, October 2016
- [95] Q. Ma[†], **Lin Gao**, Y.F. Liu, and J. Huang, “A Contract-Based Incentive Mechanism for Crowdsourced Wireless Community Networks,” *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Arizona, USA, May 2016
- [96] M. Tang[†], **Lin Gao**, H. Pang, J. Huang, and L. Sun, “A Multi-Dimensional Auction Mechanism for Mobile Crowdsourced Video Streaming,” *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Arizona, USA, May 2016
- [97] **Lin Gao**, M. Tang[†], H. Pang[†], J. Huang, and L. Sun, “Performance Bound Analysis for Crowdsourced Mobile Video Streaming,” *Conference on Information Sciences and Systems (CISS)* (*Invited Paper*), Princeton, NJ, USA, March 2016
- [98] H. Pang[†], P. Wang, **Lin Gao**, M. Tang, J. Huang, and L. Sun, “Crowdsourced Mobility Prediction Based on Spatio-Temporal Contexts,” *IEEE International Conference on Communications (ICC)*, Malaysia, May 2016 (CCF C类会议)
- [99] H. Yu[†], M. Cheung, **Lin Gao**, and J. Huang, “Economics of Public Wi-Fi Monetization and Advertising,” *IEEE International Conference on Computer Communications (INFOCOM)*, San Francisco, USA, April 2016 (CCF A类会议, Acceptance Rate: **18%**; **Best Paper Award Finalist**, Ranking top 5 among all 300 accepted papers in INFOCOM 2016)
- [100] Z. Zheng[†], **Lin Gao**, L. Song, and J. Huang, “Topology-Aware Incentive Mechanism for Cooperative Relay Networks,” *IEEE Global Communications Conference (GLOBECOM)*, San Diego, USA, December 2015 (CCF C类会议)

- [101] C. Jiang[†], **Lin Gao**, L. Duan, and J. Huang, "Economics of Peer-to-Peer Mobile Crowdsensing," *IEEE Global Communications Conference (GLOBECOM)*, San Diego, USA, December 2015 (CCF C类会议)
- [102] **Lin Gao**, F. Hou, and J. Huang, "Providing Long-Term Participation Incentive in Participatory Sensing," *IEEE International Conference on Computer Communications (INFOCOM)*, Hong Kong, May 2015 (CCF A类会议, Acceptance Rate: **19%**; Google Scholar Citations: **125**)
- [103] Y. Luo[†], **Lin Gao**, and J. Huang, "HySIM: A Hybrid Spectrum and Information Market for TV White Space Networks," *IEEE International Conference on Computer Communications (INFOCOM)*, Hong Kong, May 2015 (CCF A类会议, Acceptance Rate: **19%**)
- [104] Q. Ma[†], **Lin Gao**, Y.F. Liu, and J. Huang, "A Game-Theoretic Analysis of User Behaviors in Crowdsourced Wireless Community Networks," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt)*, Indian, May 2015 (**Best Student Paper Award**)
- [105] M.M. Khalili[†], **Lin Gao**, J. Huang, and B. H. Khalaj, "Incentive Design and Market Evolution of Mobile User-Provided Networks," *IEEE Workshop on Smart Data Pricing (SDP) (Invited Paper)*, Hong Kong, May 2015
- [106] **Lin Gao**, G. Iosifidis, J. Huang, and L. Tassiulas, "Hybrid Data Pricing for Network-Assisted User-Provided Connectivity," *IEEE International Conference on Computer Communications (INFOCOM)*, Toronto, Canada, April 2014 (CCF A类会议, Acceptance Rate: **19%**; Google Scholar Citations: **47**)
- [107] G. Iosifidis, **Lin Gao**, J. Huang, and L. Tassiulas, "Enabling Crowd-Sourced Mobile Internet Access," *IEEE International Conference on Computer Communications (INFOCOM)*, Toronto, Canada, April 2014 (CCF A类会议, Acceptance Rate: **19%**; Google Scholar Citations: **58**)
- [108] Y. Luo[†], **Lin Gao**, and J. Huang, "Trade Information, Not Spectrum: A Novel TV White Space Information Market Model," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Hammamet, Tunisia, May 2014 (**Best Paper Award**)
- [109] Y. Luo[†], **Lin Gao**, and J. Huang, "Information Market for TV White Space," *IEEE Workshop on Smart Data Pricing (SDP) (Invited Paper)*, Toronto, Canada, May 2014
- [110] Y. Luo[†], **Lin Gao**, and J. Huang, "White Space Ecosystem: A Secondary Network Operator's Perspective," *IEEE Global Communications Conference (GLOBECOM)*, Atlanta, USA, December 2013 (CCF C类会议)
- [111] G. Iosifidis, **Lin Gao**, J. Huang, and L. Tassiulas, "An Iterative Double Auction for Mobile Data Offloading," *International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, Tsukuba Science City, Japan, May 2013 (**Best Paper Award**; Google Scholar Citations: **103**)
- [112] **Lin Gao**, G. Iosifidis, J. Huang, and L. Tassiulas, "Economics of Mobile Data Offloading," *IEEE Workshop on Smart Data Pricing (SDP) (Invited Paper)* (co-located with IEEE INFOCOM), Turin, Italy, April 2013 (Google Scholar Citations: **115**)
- [113] Y. Luo[†], **Lin Gao**, and J. Huang, "Spectrum Broker by Geo-location Database," *IEEE Global Communications Conference (GLOBECOM)*, Anaheim, USA, December 2012 (CCF C类会议)
- [114] **Lin Gao**, J. Huang, Y. Chen, and B. Shou, "Contrauction: An Integrated Contract and Auction Design for Dynamic Spectrum Sharing," *Conference on Information Sciences and Systems (CISS) (Invited Paper)*, Princeton, NJ, USA, March 2012
- [115] **Lin Gao**, X. Wang, G. Sun and Y. Xu, "A Game Approach for Cell Selection and Resource Allocation in Heterogeneous Wireless Networks," *IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON)*, Utah, USA, June 2011 (CCF B类会议; Google Scholar Citations: **58**)
- [116] L. Duan, **Lin Gao**, and J. Huang, "Contract-Based Cooperative Spectrum Sharing," *IEEE Symposium on New Frontiers in Dynamic Spectrum Access Networks (DySPAN)*, Aachen, Germany, May 2011 (Google Scholar Citations: **111**)
- [117] H. Wang[†], **Lin Gao**, X. Gan, X. Wang, and E. Hossain, "Cooperative Spectrum Sharing in Cognitive Radio Networks: A Game-Theoretic Approach," *IEEE International Conference on Communications (ICC)*, South Africa, May 2010 (CCF C类会议; Google Scholar Citations: **75**)
- [118] T. Chu[†], P. Cheng[†], **Lin Gao**, X. Wang, et al., "Spectrum Trading in Cognitive Radio Network: An Agent-based Model under Demand Uncertainty," *IEEE Global Communications Conference (GLOBECOM)*, Miami, USA, December 2010 (CCF C类会议)
- [119] P. Xu[†], S. Gu[†], **Lin Gao**, H. Yu, et al., "Myopic Sensing for Multiple SUs in Multichannel Opportunistic Access," *International Wireless Communications and Mobile Computing Conference (IWCMC)*, Caen, France, June 2010

- [120] H. Yu, **Lin Gao**, Y. Li, X. Gan, et al., “Information Sharing in Spectrum Auction for Dynamic Spectrum Access,” *IEEE Global Communications Conference (GLOBECOM)*, Hawaii, USA, December 2009 (CCF C类会议)
- [121] **Lin Gao** and X. Wang, “A Game Approach for Multi-Channel Allocation in Multi-Hop Wireless Networks,” *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, Hong Kong, May 2008 (CCF B类会议, Acceptance Rate: **15%**; Google Scholar Citations: **97**)
- [122] **Lin Gao**, X. Wang, Y. Xu, and W. Chen, “Distributed Multi-radio Channel Allocation in Multi-Hop Ad Hoc Networks,” *IEEE International Conference on Communications (ICC)*, Beijing, China, May 2008 (CCF C类会议)