

## Guoju Gao (高国举), Ph.D.

@contact me: +86 15850226464, gaoguoju@mail.ustc.edu.cn

**Date of Birth:** 04-16-1991     **Birthplace:** Lianyungang, Jiangsu Province

**Homepage:** <http://home.ustc.edu.cn/~gaoguoju/>

**Doctoral Advisor:** Guoliang Chen (Prof.), Mingjun Xiao (Prof.)

**Research Interests:** The research on the incentive mechanism, privacy preservation, reinforcement learning, etc. in mobile computing.

### Education:

- Sep. 2014 - Jun. 2020     University of Science and Technology of China, Hefei, China  
(Ph.D., Computer Science and Technology)
- Jan. 2019 - Jan. 2020     Temple University, Philadelphia, USA  
(visiting Ph.D., advisor: Jie Wu, AAAS & IEEE Fellow)
- Sep. 2010 - Jun. 2014     University of Science and Technology of Beijing, Beijing, China  
(Bachelor, information security)



### Publications:

- **Guoju Gao**, Jie Wu, Mingjun Xiao and Guoliang Chen. Combinatorial Multi-Armed Bandit Based Unknown Worker Recruitment in Heterogeneous Crowdsensing. IEEE INFOCOM, 2020. (CCF A)
- Mingjun Xiao, **Guoju Gao** (the first author except my doctoral advisor), Jie Wu, Sheng Zhang and Liusheng Huang. Privacy-Preserving User Recruitment Protocol for Mobile Crowdsensing. IEEE-ACM Transactions on Networking, 2020. (CCF A)
- **Guoju Gao**, Mingjun Xiao, Jie Wu, Sheng Zhang, Liusheng Huang and Guiliang Xiao. DPDT: A Differentially Private Crowd-Sensed Data Trading Mechanism. IEEE Internet of Things Journal, vol. 7, no. 1, pp. 751-762, 2020. (IF: 9.515, JCR Q1, top journal)
- **Guoju Gao**, Mingjun Xiao, Jie Wu, He Huang, Shengqi Wang and Guoliang Chen. Auction-based VM Allocation for Deadline-Sensitive Tasks in Distributed Edge Cloud. IEEE Transactions on Services Computing, 2019. (IF: 5.707, top journal, CCF B)
- **Guoju Gao**, Jie Wu, Zhaoyang Yan, Mingjun Xiao and Guoliang Chen. Unknown Worker Recruitment with Budget and Covering Constraints for Mobile Crowdsensing. IEEE ICPADS 2019. (CCF C)
- **Guoju Gao**, Mingjun Xiao, Jie Wu, He Huang and Guoliang Chen. Minimum Cost Seed Selection for Multiple Influences Diffusion in Communities. IEEE MASS 2018. (CCF C)
- **Guoju Gao**, Mingjun Xiao, Jie Wu, Liusheng Huang and Chang Hu. Truthful Incentive Mechanism for Nondeterministic Crowdsensing with Vehicles. IEEE Transactions on Mobile Computing, vol. 17, no. 12, pp. 2982-2997, 2018. (CCF A)
- **Guoju Gao**, Mingjun Xiao, Jie Wu, Kai Han, Liusheng Huang and Zhenhua Zhao. Opportunistic Mobile Data Offloading with Deadline Constraints. IEEE Transactions on Parallel and Distributed Systems, vol. 28, no. 12, pp. 3584-3599, 2017. (CCF A)
- **Guoju Gao**, Mingjun Xiao and Zhenhua Zhao. Optimal Multi-Taxi Dispatch for Mobile Taxi-Hailing Systems. IEEE ICPP 2016. (CCF B)
- **Guoju Gao**, Mingjun Xiao, Jie Wu, Kai Han and Liusheng Huang. Deadline-Sensitive Mobile Data Offloading via Opportunistic Communications. IEEE SECON 2016. (CCF B)
- Hai Tang, Mingjun Xiao, **Guoju Gao** and Hui Zhao. Reverse-Auction-Based Crowdsourced Labeling for Active Learning. World Wide Web Journal, 2019. (CCF B)

- Baoyi An, Mingjun Xiao, An Liu, **Guoju Gao** and Hui Zhao. Truthful Crowdsensed Data Trading Based on Reverse Auction and Blockchain. Spring DASFAA 2019. (CCF B)
- Yubin Duan, **Guoju Gao**, Mingjun Xiao, and Jie Wu. A Privacy-Preserving Order Dispatch Scheme for Ride-Hailing Services. IEEE MASS 2019. (CCF C)
- Chang Hu, Mingjun Xiao, Liusheng Huang and **Guoju Gao**. Truthful Incentive Mechanism for Vehicle-based Nondeterministic Crowdsensing. ACM/IEEE IWQoS 2016. (CCF B)
- Jiapeng Yu, Mingjun Xiao, **Guoju Gao** and Chang Hu. Minimum Cost Spatial-Temporal Task Allocation in Mobile Crowdsensing. Springer WASA 2016. (CCF C)
- Tingting Hu, Mingjun Xiao, Chang Hu, **Guoju Gao** and Baowei Wang. A QoS-sensitive task assignment algorithm for mobile crowdsensing. Pervasive and Mobile Computing, 2017,41:333-342. (CCF C)

### Patents:

- **Guoju Gao**, Mingjun Xiao and Liusheng Huang. Optimal Multi-Taxi Dispatching Method for Active-Assignment-Based Taxi-Hailing Systems. Application Publication Number: CN106448138A.

### Honors and Awards:

1. At USTC
  - OCT, 2019 Shenzhen Stock Exchange Scholarship
  - MAY, 2019 The Recipient of the Doctoral thesis Excellence Support Program at USTC
  - DEC, 2018 The Excellent member of the Communist Party of China at USTC (优秀共产党员)
  - OCT, 2017 Huawei 1<sup>st</sup> Class Scholarship
  - OCT, 2016 National Scholarship
  - OCT, 2015 Suzhou Industrial Park Scholarship
  - 2014 - 2018 1<sup>st</sup> Class Academic Excellence Scholarship for Graduate Students
2. At USTB
  - JUN, 2014 Outstanding Graduate in Beijing (less than 1% from all graduate students)
  - 2011 - 2013 National Inspirational Scholarship & Outstanding Miyoshi Students at USTB
  - OCT, 2010 Freshmen 3<sup>rd</sup> Class Scholarship

### Participated Projects:

1. Research on the Key Technologies of Secure and Truthful Data Trading System Based on Mobile Crowdsensing. Natural Science Foundation of China (NSFC) Project.
2. Research on the critical technology of crowdsensing in mobile social networks. NSFC Project.
3. Research on the message delivery in mobile social networks for the information sharing of intelligent transportation. NSFC Project.
4. Research on the message delivery in delay tolerant vehicular mobile social network. Natural Science Foundation of Jiangsu Province in China.

### Technical Strengths:

English: CET-6, TUTEP (Temple University Testing of English Proficiency)  
 Scientific Application: Python, PHP, Latex, Matlab, Origin, EndNote