

Hongbo Li

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RESEARCH INTERESTS

- Network Economics and Game Theory
- Mobile Crowdsourcing and Networked AI
- Multi-agent Learning
- Dynamics and Control

EDUCATION BACKGROUND

- 09/2020-Present** Singapore University of Technology and Design (SUTD), Ph.D.
Engineering Systems and Design (ESD) Pillar
Advisor: Duan Lingjie, Associate Professor
- 09/2015-06/2019** Shanghai Jiao Tong University (SJTU), BSc
School of Electronic Information and Electrical Engineering, IEEE Honor Class (Top 10% for entry selection)

WORK EXPERIENCE

- 06/2020-08/2020** Shanghai Jiao Tong University **Research Assistant**
- Completed the virtual testbed in Robot Operating System (ROS) of our Virtual-Physical Interactive Mobile Robotic Testbed.
- 07/2019-06/2020** AI Lab., Chang Hong Electric Co., Ltd **Assistant Engineer**
- Participated in the research on SLAM for robots, and studied multi-sensor filtering fusion algorithms.
 - Studied algorithms of AGV mapping, path planning and navigation based on LIDAR sensors, and realized 1cm-precision navigation algorithms for industrial intelligent manufacturing.

PUBLICATIONS

contributed equally: [†]

Journal Articles.....

- [1] **H. Li** and L. Duan, "Online Pricing Incentive to Sample Fresh Information," in *IEEE Transactions on Network Science and Engineering*, vol. 10, no. 1, pp. 514-526, 1 Jan.-Feb. 2023, doi: 10.1109/TNSE.2022.3216856.

Conference Papers.....

- [1] **H. Li** and L. Duan, "When Congestion Games Meet Mobile Crowdsourcing: Selective Information Disclosure," to appear in *The Proceedings of 37th AAAI Conference on Artificial Intelligence*. [Online]. Available: <https://arxiv.org/abs/2211.14029>

Please note that there are **3 more** papers (first-author) under review.

Preprints.....

- [1] X. Ding[†], H. Wang[†], **H. Li**[†], H. Jiang, and J. He, "Robopheus: A virtual-physical interactive mobile robotic

testbed,” *arXiv preprint arXiv:2103.04391*.

PAPER REVIEW

- ACM Mobihoc 2022 Conference.

Teaching Experience

- **Data and Business Analytics**, teaching assistant, undergraduate course, Singapore University of Technology and Design, Engineering Systems and Design Pillar, 2022 Jan.
- **Game Theory**, teaching assistant, undergraduate course, Singapore University of Technology and Design, Engineering Systems and Design Pillar, 2022 May.

Talks

- [04/2023] “When Mobile Crowdsourcing Meets Congestion Games: Selective Information Disclosure”, Shanghai Jiao Tong University, Shanghai, China.

AWARDS & ACHIEVEMENTS

05/2019	Outstanding Graduates of Shanghai (Top 2% in SJTU)
12/2017	Student of the Year (Nomination Award), SJTU (Top 15/40000)

STUDENT WORK

12/2017-12/2018	Students’ Association Union, SJTU	Executive President
➤ Took charge of the operation and daily matters of over 200 student clubs in SJTU.		
➤ In charge of anniversary projects of SJTU, coordinated more than 300 activities each year.		