

# Hao Luan

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Website: <https://edmundluan.github.io/>

## EDUCATION

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### Harbin Institute of Technology

*Bachelor of Engineering in Automation*

Shenzhen, CHN

*Sep. 2017 – Jun. 2021*

- CGPA: 90.1/100; 3.8/4.0
- Undergraduate Academic Merit Scholarship
- Outstanding Bachelor's Thesis (top 4%)

## EXPERIENCE

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### Research Assistant

Robotic Perception & Intelligence Lab

Aug. 2021 – Present

Southern University of Science and Technology

*Supervisors: Prof. Max Q.-H. Meng, Dr. Jiankun Wang*

*Dept. Electrical & Electronic Eng.*

- Researching high-efficiency planning and control for mobile robots working in dense crowds. Latest publication is currently under review.

### Undergraduate Research Assistant

MAS Lab

Oct. 2019 – Jun. 2021

Harbin Institute of Technology, Shenzhen

*Supervisor: Prof. Jie Mei*

*School of Mechanical Engineering and Automation*

- Researched on cooperative control of multi-agent systems, with publication currently under review.

### Software Development Intern

Peng Bo Technology (Shenzhen) Co. Ltd.

Mar. 2021 – May 2021

Shenzhen, CHN

*Supervisor: Dr. Shixin Mao*

*Co-founder*

- Developed drivers for the vehicle chassis of the company's autonomous robotic products.

### Visiting Research Student

Robotics Laboratory

Nov. 2015 – May 2016

Sun Yat-sen University

*Supervisor: Prof. Hui Cheng*

*School of Computer Science and Engineering*

- Worked on optimizing task-allocation algorithms for multi-robot systems.

## PUBLICATIONS & PREPRINTS

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\* indicates equal contribution.

- A. Xiao\*, **H. Luan\***, Z. Zhao\*, Y. Hong, J. Zhao, J. Wang, and M. Q.-H. Meng, "Robotic autonomous trolley collection with progressive perception and nonlinear model predictive control," *2022 International Conference on Robotics and Automation (ICRA)*, 2022. **Under Review.** [Page] [PDF]
- **H. Luan**, J. Mei, H. Yu, and G. Ma, "Distributed constrained consensus of multi-agent systems with uncertainties and disturbances under switching directed graphs." 2022. **Under Review.** [Page][Abstr.]

## SELECTED ACADEMIC SERVICES

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### Conference Reviewing

- IEEE International Conference on Robotics and Automation (ICRA 2022)
- IEEE International Conference on Robotics and Biomimetics (ROBIO 20/21)

## MISCELLANEOUS

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**Languages:** English (*TOEFL iBT*® 107/120), Mandarin Chinese (native), Cantonese (native)

**Athletics:** Centre Back/Full Back, HITSZ Student Soccer Team, 2017 – 2021