

Hao Luan

Contact: +86 138-2742-5438 | luanhao@stu.hit.edu.cn | luanh@mail.sustech.edu.cn

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

EDUCATION

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

Research Assistant

Robotic Perception & Intelligence Lab

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

Aug. 2021 – Present

Southern University of Science and Technology

Dept. Electrical & Electronic Eng.

- Researching safe, efficient, and trustworthy planning and control for mobile robots working in dense crowds. Latest publication is currently under review.

Undergraduate Research Assistant

MAS Lab

Supervisor: Prof. Jie Mei

Oct. 2019 – Jun. 2021

Harbin Institute of Technology, Shenzhen

School of Mechanical Engineering and Automation

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

Software Development Intern

Peng Bo Technology (Shenzhen) Co. Ltd.

Supervisor: Dr. Shixin Mao

Mar. 2021 – May 2021

Shenzhen, CHN

Co-founder

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

Visiting Research Student

Robotics Laboratory

Supervisor: Prof. Hui Cheng

Nov. 2015 – May 2016

Sun Yat-sen University

School of Computer Science and Engineering

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

PUBLICATIONS & PREPRINTS

* 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 A.-G. Wu, "Distributed constrained consensus of multi-agent systems with uncertainties and disturbances under switching directed graphs." 2022. **Under Review**. [\[Page\]](#)[\[Abstr.\]](#)

SELECTED ACADEMIC SERVICES

Conference Reviewing

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

MISCELLANEOUS

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

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