YUNHAI HAN

 $(858)214-4416 \diamond yhan 389@gatech.edu \diamond https://y8han.github.io$

EDUCATION BACKGROUND

Georgia Institute of Technology

06/2022 - present GPA: 4.00/4.00

Ph.D. in Robotics

· Advisor: Harish Ravichandar and Ye Zhao

University of California, San Diego (UCSD)

09/2019 - 06/2021

M.S. in Dynamics & Controls, Mechanical and Aerospace Engineering

GPA: 3.846/4.00

· Relevant Course: Robotics

· Thesis & publication: A Numerical Verification Framework for Differential Privacy in Estimation

Yanshan University

09/2015 - 07/2019

B.S. in Mechatronics, Mechanical Engineering

GPA: 3.761/4.5, Major GPA: 3.804/4.5

· Relevant Course: Mechatronics

Ranking: 2^{nd} of 594 (First six semesters)

· Thesis (in Chinese): Automatically tracking system using monocular vision algorithm PnP

FILED OF INTERESTS

Learning for contact-rich manipulation, Robot learning

PUBLICATIONS

- Han. Y, Liu. Y, Paz. D, and Christensen. I. H, "Auto-calibration Method Using Stop Signs for Urban Autonomous Driving Applications", International Conference on Robotics and Automation, 2021
- Christensen. I. H, Paz. D, H. Zhang, D. Meyer, Hao. X, **Han. Y**, Liu. Y, Andrew. L , Z. Zhong, S. Tang, "Autonomous Vehicles for Micro-Mobility", Autonomous Intelligent System
- Han. Y, Liu. F and M. C. YIP, "A 2D Surgical Simulation Framework for Tool-Tissue Interaction", International Conference on Intelligent Robots and Systems, 2020, Workshop
- Liu. F, Li. Z, **Han. Y**, J Lu, F Richter and M. C. YIP, "Real-to-Sim Registration of Deformable Soft Tissue with Position-Based Dynamics for Surgical Robot Autonomy", International Conference on Robotics and Automation, 2021
- Han. Y and Martínez. S, "A Numerical Verification Framework for Differential Privacy in Estimation", IEEE Control Systems Letters
- Han. Y, Batra. R, Boyd. N, Zhao. T, She. Y, Hutchinson. S, Zhao. Y, "Learning Generalizable Vision-Tactile Robotic Grasping Strategy for Deformable Objects via Transformer", arXiv:2112.06374
- M. E. Cao, J. Warnke, **Han. Y**, Ni. Xinpei, Zhao. Y, Coogan. S, "Leveraging Heterogeneous Capabilities in Multi-Agent Systems for Environmental Conflict Resolution", International Symposium on Safety, Security, and Rescue Robotics, 2022
- Han. Y, Boyd. N, Ni. Xinpei, Zhao. Y, "Multi-Robot Collaboration with Heterogeneous Capabilities", American Control Conference, 2022

AWARDS & HONORS

AWARDS

06/2016	China Undergraduate Mathematical Contest in Modelling (CUMCM	I) Second Prize
03/2017	Zhou Peiyuan Mechanics Competition	National Excellence Award
05/2017	National Undergraduate Electronic Design Contest	$Successful\ Entry\ Certificate$
09/2017	Asia-Pacific Mathematical contest in modeling (APMCM)	Second Prize
01/2018	Mathematical Contest in Modeling (MCM/ICM)	$Honorable\ Mention$
08/2018	RM RoboMasters	Second Prize

HONORS

- \cdot 11/2017 National Scholarship from Chinese Ministry of Education
- \cdot 07/2018 Certificate for Attendance of CDIO 2018 Academy (Japan)
- \cdot 06/2019 Certificate of Excellent Graduate in Hebei Province
- · 09/2022 Georgia Tech IRIM Robotics PhD Fellowship

PROFESSIONAL SERVICE

ICRA 2021	Reviewer
AIM 2021	Reviewer
ICRA 2022	Reviewer
IROS 2022	Reviewer
ACC 2022	Session Chair
SSRR 2022	Reviewer

TEACHING EXPERIENCE

	MAE145: Robotic Estimation & Planning	Winter. 202	21
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Teaching Assistant

MAE146: Introduction to ML Algorithms Spring. 2021

Teaching Assistant

WORKING EXPERIENCE

Georgia Institute of Technology Summer. 2021 - Spring. 2022

Research Assistant

TECHNICAL SKILLS

Programming	C/C++, Python, MATLAB/Simulink
Tool	STM32, ROS, Drake, Git, Linux, LATEX
Language	Proficient in English and Chinese