YUNHAI HAN

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EDUCATION BACKGROUND

Georgia Institute of Technology

06/2022 - present Ph.D. in Robotics GPA: 4.00/4.00

09/2019 - 06/2021

GPA: 3.846/4.00

· Advisor: Harish Ravichandar

University of California, San Diego (UCSD)

M.S. in Mechanical Engineering

· Relevant Course: Robotics

Yanshan University 09/2015 - 07/2019

B.S. in Mechanical Engineering GPA: 3.761/4.5, Major GPA: 3.804/4.5

Ranking: 2^{nd} of 594 (First six semesters) · Relevant Course: Mechatronics

FILED OF INTERESTS

Learning for robotic manipulation, Robot learning

PUBLICATIONS

- Yu. K*, Han. Y, Zhu. M, Zhao. Y, "MimicTouch: Learning Human's Control Strategy with Multi-Modal Tactile Feedback", CoRL 2023 Deployable Workshop
 - * Yu is my master student advisee.
- Han. Y, Xie. M, Zhao. Y, Ravichandar. H, "On the Utility of Koopman Operator Theory in Learning Dexterous Manipulation Skills", **Oral Presentation** at CoRL 2023 (acceptance rate: 6.6%)
- Han. Y, Yu. K, 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", SSRR, 2022
- Han. Y, Boyd. N, Ni. Xinpei, Zhao. Y, "Multi-Robot Collaboration with Heterogeneous Capabilities", ACC, 2022
- Han. Y and Martínez. S, "A Numerical Verification Framework for Differential Privacy in Estimation", L-CSS & ACC, 2022
- 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
- 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", ICRA, 2021
- Han. Y, Liu. Y, Paz. D, and Christensen. I. H, "Auto-calibration Method Using Stop Signs for Urban Autonomous Driving Applications", ICRA, 2021
- Han. Y, Liu. F and M. C. YIP, "A 2D Surgical Simulation Framework for Tool-Tissue Interaction", IROS 2020 Workshop

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
ICRA 2023	Reviewer
ICRA 2024	Reviewer

TEACHING EXPERIENCE

MAE145: Robotic Estimation & Planning	Winter. 2021
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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