



Yiyu Wang

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RESEARCH INTERESTS

Multi-Agent/Robot Systems, Heuristic Search, Motion Planning

EDUCATION

Shanghai Jiao Tong University

B.S. in Mechanical Engineering; GPA: 3.71/4.00

Shanghai, China

Aug 2023 – Present

University of Michigan

B.S. in Computer Science

Ann Arbor, United States

Second Bachelor's, Expected August 2025 – May 2027

SKILLS

OS:Windows, Linux(Ubuntu)

Programming Languages:C/C++, Python, MATLAB

Technologies:Git, ROS, Elm, OR-Tools, SolidWorks, tmux

Languages:Chinese(native), English(fluent)

EXPERIENCE

RAP Lab

Research Intern, Shanghai, China

Aug 2024 – Present

Supervised by Prof Zhongqiang Ren.

- Designed a heuristic search algorithm for Vehicle Routing Problem with capacity and time-windows constraint(CVRPTW) and compare it with baseline solvers.
- Research in autonomous multi-robot exploration. Implement a C++ solver for heterogeneous multi-robot path planning. Paper is being submitted to International Symposium on Multi-Robot and Multi-Agent Systems(MRS)

PUBLICATIONS

HEHA: Hierarchical Planning for Heterogeneous Multi-Robot Exploration of Unknown Environments
Longrui Yang*, Yiyu Wang*, Jingfan Tang* —Submitted to MRS 2025

- Main Contributions: Designed, implemented (C++), and evaluated global heuristic path planning algorithms within a hierarchical exploration system involving heterogeneous robots (drones, wheeled robots, and legged robots) for complex terrain traversal. Also co-authored the corresponding sections of the paper. Participated in real-world experiments involving collaborative exploration between unmanned ground vehicles and legged robots.

SERVICE

Teaching Assistant: ME2110J (Introduction to Solid Mechanics)

REFERENCES

Prof. Zhongqiang Ren

Assistant Professor, Shanghai Jiao Tong University

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Department: University of Michigan - Shanghai Jiao Tong University Joint Institute, Automation

Dr. Shizhe Zhao

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