

Xutian Chen

chenxutian@stu2021.jnu.edu.cn | github.com/Blossom0913 | gitee.com/chenxutian

Education

Jinan University

B.Eng in Artificial Intelligence

2021/9 – 2025/7

Zhuhai, China

- Major Courses: Machine Learning, Deep Learning, Computer Vision and 15 others

Projects

ASC2022

2021/11 – 2022/6

Team Member

Zhuhai, China

- National Second Prize in ASC 2022, rank 22 in whole participants. Attended the ASC final as visitors in USTC in Jul.2022.
- Mainly focus on the DeepMD-Kit, HPC. Optimized the benchmark with parallelizing the computation with CUDA, Mpi, OpenMP and other tools. Ultimately achieved 11% performance optimization.
- Assisted in configuring the remote server, running environment preparations and drawing the graph with datasets in the proposal. The main work of us is depicted in the proposal following: **ASC Student Supercomputer Challenge Proposal**

Multi-agent Path Planning

2024/3 – 2024/7

Research Assistant

Zhuhai, China

- Software developer in research group, designed and implemented message interaction models for information communication between AGV platform and local server.
- Reproduced the baseline of CL-CBS, a multi-agent path planning algorithm designed by APRIL Lab of Zhejiang University. Modified and applied it to the simulation AGV platform. **CL-MAPF: Multi-Agent Path Finding for Car-Like Robots with Kinematic and Spatiotemporal Constraints**
- Cooperate with the team to investigate and analyze the feasibility of CL-CBS in real business scenario. Fixed bugs and proposed strategies which is 5x faster than original algorithm like Hybrid A* in 3-month period.

Open-Source Contributions

Personal Projects

- **PlayTask**: Design and build a time management APP from scratch. Learn the VCS, Event Response and basic debugging tools in Android Studio. Design the UI/UX with the ViewPager2, TabLayout and Fragment by oneself. The source code have been uploaded in GitHub: **Blossom0913/PlayTask**

Skills

Programming Languages: Python, C/C++, JAVA, Rust, Kotlin

Tech Skills: Git, SSH, CUDA, Fine-Tuning, Linux, Shell, Lisp, Android, TensorFlow, PyTorch