

GENG LI

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EDUCATION

Shandong University

Bachelor of Electrical Engineering

- Overall GPA: 88.3

University of California San Diego

Exchange student

Shandong, China

2021-2025(expected)

Mar.2024-Aug.2024

RESEARCH INTERESTS

Robotics, 3D Vision, learning-based motion planning

RELEVANT COURSES

Probability Theory (98)

Operational Research (97)

Signal and System(95)

Single chip Microcomputer (94)

Electronic technology (90)

Electric Circuit (93)

Complex variation, field theory (94)

Data acquisition with Python crawler (95) ...

EXPERIENCE

SDSR lab

Shandong University

Research Intern

Advisors: **Prof. Zhe Min**

Jul. 2023 -present

- Propose a more robust registration model, which is the first end-to-end model to achieve both rigid and non-rigid registration at same time
- Several methods of liver point cloud registration proposed by the lab recently were compared under the same data set, and the advantages were improved and optimized
- The point cloud data set, MedShapeNet, containing the whole body organs is checked and the data set can be used for deep learning training is obtained

Logistics Handling Robot Institution

Shandong University

Team Leader

Mar. 2023 - Aug. 2023

- An intelligent logistics handling robot is designed, which has the functions of color recognition, self-navigation and material transportation
- As the team leader, I was responsible for writing the master code of the handling robot. STM32 is used as the main control board, and the Raspberry PI is responsible for the visual part to realize the effective interaction between STM32 and Raspberry PI.
- I am also responsible for writing the code of Raspberry PI, which mainly uses python to write opencv to realize color recognition, target location recognition and road recognition

PUBLICATIONS

[1] 2prnet: A point cloud registration method that can be applied to large rigid transformations

Geng Li, Zhe Min

Would be submitted to IROS 2024.

[2] Comparison of the SOTA models for liver point cloud registration

Geng Li*, Hao Yu*, Mingyang Liu*, Zhe Min

Under writing

HONORS

- Towngas China Scholarship (Top 5%) 2023
- Outstanding Student Scholarship, Silver Award (top 10%) 2023
- Specialty Scholarship, Silver Award 2023

SKILLS

Programming: C/C++ Python (Pytorch, OpenCv) LATEX MATLAB

English: Duolingo: 110