Haofan Wang

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Personal Profile

A third-year undergraduate who majors in the artificial intelligence. Interested in computer vision, robotics and AI speech. Love reading and playing table tennis. Once a guitarist in a school band.

Education

Zhejiang UniversityHangzhou, China

Bachelor in Artificial Intelligence

September 2020 - present

• GPA: 3.86/4(87.49/100)

· Major Courses:

Math: Linear Algebra, Mathematical Analysis, Probability Theory, etc.;

Computer Science: Data Structure, Computer Organization And Design, Operating System, Database system, etc.;

Artificial Intelligence: Machine Learning, Computer Vision, Computer Graphics, Natural Language Processing, AI Chips and system, etc.;

Others: Introduction of Robot, etc.

Project Experience.

ImTooth: Neural Implicit Tooth for Dental Augmented Reality

CAD&CG lab

Zhejiang University

April 2022 - April 2023

- The rise of neural implicit fields has greatly promoted the ability of 3D reconstruction and localization. According to the idea of "AR+ medicine", the modeling and localization ability of neural implicit fields are combined into AR glasses to assist clinical surgery of oral medicine.
- Under guidance of CAD&CG tutor and PHD students, and working with two other undergraduates. I was mainly responsible for 3D reconstruction in this project.
- NeuS was used to reconstruct textureless tooth models, and NeuS was modified to add depth information to assist reconstruction and registration
- Combine reconstruction with pose estimation and AR glasses to realize the complete system

Course labs

Zhejiang University

September 2021 - current

- Mechine Learning: Handwriting numerals recognition on mnist. Using traditional mechine learning methods like SVM, and deep network like MLE, CNN, etc. Adding tricks like data augmentation, feature extraction by VAE, etc.
- Computer Graphics: Design a 3D horror game from scratch using opengl. Audio, action, collision detection etc. are added.
- Computer Organization and Design: Designed and implemented a five-stage pipelined CPU with interruption on FPGA using verilog.

Publications

ImTooth: Neural Implicit Tooth for Dental Augmented Reality

Hai Li, Hongjia Zhai, Xingrui Yang, Zhirong Wu, Yihao Zheng, Haofan Wang, Jianchao Wu, Hujun Bao, Guofeng Zhang *IEEE Transactions on Visualization and Computer Graphics* (2023) pp. 1–10. 2023

Languages

English |

Ielts 7.0

Skills

Programming Python (PyTorch, pyplot, NumPy, Scikit-learn. etc.), C/C++. **Miscellaneous** Linux, △TeX(Overleaf/R Markdown), Microsoft Office, Git.

APRIL 17, 2023