CHEN HAONAN

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EDUCATION

ETH Zurich   *Aug 2023 -*
Master's degree of Computer Science   Zurich, Switzerland

The Chinese University of Hong Kong   *Aug 2018 - Aug 2023*
Bachelor's degree of Computer Science (First Class Honour)   Hong Kong

EXPERIENCE

LVS-Net: Line Voting with Segmentation for Visual Localization
3D Vision Course Project   *Mar 2022 - Jun 2022*

- Supervised by teaching assistent Rémi Pautrat in ETH, I worked with other three team members to estimate camera pose from 2D-3D correspondences that are gained from extended VS-Net.
- The project involves the preprocessing of data and network training. In contrast to the traditional network-based visual localization which utilizes point 2D-3D correspondence, our model outputs line correspondence to provide more spatial information for RANSAC-Pnp algorithm.

3D Human Pose Reconstruction from Monocular Image
Bachelor's Final Year Project   *Sep 2021 - Apr 2022*

- In the final year thesis on 3D human pose reconstruction, we refer to a model called I2L-MeshNet and try to improve it with other new network blocks. Human3.6M was used as our training dataset.
- The graph convolutional network is adapted to substitute the original convolutional layers to exploit human skeleton structure information. Besides, we utilized other training strategies such as weakly supervised learning.

Top-K query in video analytics
Summer Internship of Engineering Departmen   *Jul 2020 - Sep 2020*

- Play a role in User Interface design and baseline of the select-candidate algorithm in a video analytics project which works on an efficient algorithm to gain Top-K valuable frames from a resized video given a certain score function.

ACTIVITIES

Digital intelligence competition invitational tournament, Tencent   *May 2023 – Jul 2023*

- The event, themed as "Digital and E-sports Invitational", is organized by Tencent. The project competition was on an official task that requires to apply Reinforcement Learning to solve a multi-agent problem. Our team joined the Final of the competition and achieved the 6th place.

SKILLS

Artificial Intelligence Pytorch Framework, Computer Vision (Deep Learning Based Knowledge, SfM), Probabilistic AI (Gaussian Process, Reinforcement Learning)
Computer Graphics Path/Light Tracing Rendering, Photo Mapping, Participating Media Simulation

AWARDS AND SCHOLARSHIPS

Yasumoto International Exchange Scholarship , The Chinese University of Hong Kong   *2022*
College Head's List , Shaw college, The Chinese University of Hong Kong   *2021/2022*
Dean's list , CSE department, The Chinese University of Hong Kong   *2020/2021 , 2019/2020*