Quan Meng

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Contact Information

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Academic History

ShanghaiTech University Fall 2019 - Spring 2022 (expected)

- M.S. in Computer Science and Engineering
- Advisor: Prof. Jingyi Yu

Shandong University Fall 2015 - Spring 2019

- B.S. in Automatic Control
- Advisor: Prof. Guoliang Liu

Publications

1. **Quan Meng**, Anpei Chen, Haimin Luo, Minye Wu, Hao Su, Lan Xu, Xuming He, and Jingyi Yu
   GNeRF: GAN-Based Neural Radiance Field without Posed Camera
   Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), 2021
   Oral Presentation: 3.4%
   We introduce GNeRF, a method that can estimate neural radiance fields and camera poses jointly when the cameras are initialized at random poses in complex scenarios (outside-in scenes, even with less texture or intense noise). We achieve this by marrying Generative Adversarial Networks (GAN) with Neural Radiance Field.

2. **Quan Meng**, Jiakai Zhang, Qiang Hu, Xuming He, and Jingyi Yu
   LGNN: A Context-Aware Line Segment Detector
   Proceedings of the 28th ACM International Conference on Multimedia (ACM MM), 2020
   Poster: 27.9%
   Existing approaches require a computationally expensive verification or postprocessing step. Our LGNN employs a deep convolutional neural network (DCNN) for proposing line segments directly, with a graph neural network (GNN) module for reasoning their connectivities. LGNN achieves comparable performance and enables time-sensitive 3D applications.

Honors and Awards

- First prize in World Robot Contest Fighting Robot Competition. 2017
- First prize in National Undergraduate Electronics Design Contest (Shandong, China) 2017
- First prize in National Undergraduate Electronics Design Contest (Shandong, China) 2018
- Second prize in The 4th Shandong College Students' Science and Innovation Contest 2018
- National Scholarship Award, ShanghaiTech University 2021

Technical Skills

- Programming: Linux, Assembly Language (ARM), C/C++, Python, Java, Pytorch, Opencv, Latex, Matlab, Qt.
- Hardwares: Circuit Design, ARM, STM32, STC, PCB.
- Softwares: Blender, Keil, Illustrator

Teaching Experience

- *CS280 Deep Learning* in ShanghaiTech University: Teaching Assistant Fall 2020

References

- **Prof. Jingyi Yu**, ShanghaiTech University, yujingyi@shanghaitech.edu.cn
- **Prof. Hao Su**, UC San Diego, haosu@eng.ucsd.edu
- **Prof. Xuming He**, ShanghaiTech University, hexm@shanghaitech.edu.cn
- **Prof. Lan Xu**, ShanghaiTech University, xulan1@shanghaitech.edu.cn