Xindi Yang

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Education

Beijing Jiaotong University Haidian District Beijing
Master of computer science *Expected July 2023*

- GPA: 3.50

Beijing Jiaotong University Haidian District Beijing
Bachelor of computer science *July 2020*

- GPA: 3.80
- Award: Merit student
- Award: First Prize in Beijing Contest District in China Undergraduate Mathematical Contest in Modeling

Experience

Research Internship May 2022 – Present
Baidu Research *Haidian District, Beijing, China*

- Autonomous Driving Simulation internship
- Autonomous driving simulation is a simulation of real street scenes. It has high requirements for the controllability of multiple agents in the scene and the reconstruction quality of the scene. We use neural rendering methods to achieve a learnable and highly controllable simulation.
- Award: Excellent internship of the year

Visiting Student Septmber 2020 – December 2021
PKU *Haidian District, Beijing, China*

- Exploring the factors of human facial aging and using generative models to edit aging face
- Studying the phenomenon of aging in organisms, such as the aging of elegans and human

Publication

Xindi Yang, Zeke Xie, Yujie Yang, Qi Sun, Yixiang Jiang, Haoran Wang, Yunfeng Cai, Mingming Sun. 2023. *The Unreasonable Effectiveness of Multiplex Training: A Model-Agnostic Training Paradigm for Neural Radiance Field and Surface Representation.* submitted to ICCV 2023

Projects

Autonomous Driving Simulation | *3D Reconstruction* May 2022 – Present

- Reconstructing large-scale environments enables several important use-cases in domains such as autonomous driving. Autonomous driving systems are commonly evaluated by re-simulating previously encountered scenarios; however, any deviation from the recorded encounter may change the vehicle's trajectory, requiring high-fidelity novel view renderings along the altered path. We use nerf-related methods to better reconstruct street views.

Autonomous Driving Simulation | *3D Generative Model* May 2022 – Present

- Autonomous driving systems requires many agents to interact in specific street scene. To achieve precise editing street scene, we propose to use 3D generative model.

Technical Skills

Program Language: Python, C++, Bash, Java, Javescript
Language: Chinese, English
Framework: Pytorch, Paddlepaddle
Others: Git, Latex