ZHENXING MI

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RESEARCH INTEREST

My research interests focus on the scalable NeRF, Multi-view Stereo, 3D surface reconstruction and Mixture of Experts (MoE). I am also interested in Text-to-3D generation, the foundation models of Vision-Language, and scalable methods by MoE. I mainly research on scalable and efficient NeRF currently.

EDUCATION

- **The Hong Kong University of Science and Technology** Feb. 2021 - Feb. 2025 (Expected)
  Ph.D. candidate in Computer Science and Engineering
  Advisor: Prof. Dan Xu
- **Huazhong University of Science and Technology** Sept. 2017 - June 2020
  M.Sc. in Automation
  Advisor: Prof. Wenbing Tao
- **Huazhong University of Science and Technology** Sept. 2013 - June 2017
  B.Sc. in Control Science and Engineering
  Advisor: Prof. Wenbing Tao

PUBLICATIONS

- **Zhenxing Mi**, Xiaoyue Xu, and Dan Xu. "Learning Heterogeneous Mixture of Hash Experts for Highly Scalable Neural Radiance Fields." ***Technical report***.
- **Zhenxing Mi**, and Dan Xu. "LeCO-NeRF: Learning Compact Occupancy for Large-scale Neural Radiance Fields." ***Technical report***.
- **Zhenxing Mi**, and Dan Xu. "Switch-NeRF: Learning Scene Decomposition with Mixture of Experts for Large-scale Neural Radiance Fields." ***ICLR*** 2023.
- **Zhenxing Mi**, Di Chang, and Dan Xu. "Generalized Binary Search Network for Highly-Efficient Multi-View Stereo." ***CVPR*** 2022.
- Ganzhangqin Yuan*, Qiancheng Fu*, **Zhenxing Mi***, Yiming Luo*, and Wenbing Tao."SSRNet: Scalable 3D Surface Reconstruction Network." ***IEEE TVCG*** 2022.
- Yiming, Luo*, **Zhenxing Mi***, and Wenbing Tao. "DeepDT: Learning Geometry From Delaunay Triangulation for Surface Reconstruction." ***AAAI*** 2021.
- **Zhenxing Mi***, Yiming Luo*, and Wenbing Tao. "SSRNet: Scalable 3D Surface Reconstruction Network." ***CVPR*** 2020.

AWARDS

- **2018:** Graduate School Scholarship (First Prize), Zhixing Scholarship (Third Prize), Outstanding Student
- **2017:** Outstanding Graduate, Graduate School Scholarship (First Prize)
- **2014:** National Encouragement Scholarship

SKILLS

- **Programming Languages:** Python, C++, CUDA, Matlab
- **Operating Systems:** Linux (Ubuntu, CentOS), Windows, MacOS
- **Framework:** Pytorch, Tensorflow
- **Languages:** Chinese (native), English (fluent, academic writing)