YU CHI

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RESEARCH INTERESTS

Generative Models, Neural Rendering, 3D Computer Vision

EDUCATION

Technical University of Munich   Oct. 2021 – Present
M.Sc., Robotics, Cognition, Intelligence   Munich, Germany

RWTH Aachen University   Oct. 2017 – March. 2021
B.Sc., Computer Engineering (Top 5 % Graduate)   Aachen, Germany

RESEARCH EXPERIENCE

Visual Computing and Artificial Intelligence Lab, MPI-INF   May 2024 – Present
Master's Thesis   Munich, Germany
- Working on zero-shot 6D pose estimation.

Visual Computing and Artificial Intelligence Lab, MPI-INF   June 2023 – Nov 2023
Research Intern   Munich, Germany
- Proposed and implemented an approach using generative NeRF to produce infinite high-quality 3D-aware data including 3D point cloud part segmentations and 3D-consistent fine-grained annotations with limited 2D human annotations.
- Applied the proposed method in various applications, including 3D-aware semantic editing, 3D inversion, and point cloud segmentation.

CAMP, TUM   May 2022 – Nov 2022
Student Researcher   Munich, Germany
- Proposed and implemented a scene graph guided image generation technique utilizing diffusion models, resulting in enhanced image generation tailored to specific textual conditions.
- Conducted comprehensive evaluations of the developed method, benchmarking its performance against various datasets.

PUBLICATIONS

1. **DatasetNeRF: Efficient 3D-aware Data Factory with Generative Radiance Fields** - **Yu Chi**, Fangneng Zhan, Sibo Wu, Christian Theobalt, Adam Kortylewski. (**ECCV 2024**)
2. **SceneGenie: Scene Graph Guided Diffusion Models for Image Synthesis** - Azade Farshad*, Yousef Yeganeh*, **Yu Chi***, Chengzhi Shen, Björn Ommer, Nassir Navab. (**ICCVW 2023**)

TEACHING EXPERIENCE

RWTH Aachen University   April. 2020 – July. 2020
Student Teaching Assistant   Aachen, Germany
- Introduction of Electromagnetic Fields Theory

RWTH Aachen University   April. 2019 – July. 2019
Student Teaching Assistant   Aachen, Germany
- The Fundamental of Electrical Engineering 2: Modelling and Analysis of Electrical Components and Circuits

HONORS AND AWARDS

Germany Scholarship   2019-2020
RWTH Aachen University   Aachen, Germany

Dean's List   2021
RWTH Aachen University   Aachen, Germany

Zhejiang Province High School Mathematics Olympiad Competition First Prize   2015
Hangzhou High School   Hangzhou, China

SKILLS

Programming: Pytorch, Python, C++, Matlab

Language: English (C1), German (C1), Mandarin (Native)