

Di Chang

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EDUCATION

University of Southern California

Doctor of Philosophy in Computer Science

Technical University of Munich

Bachelor of Science in Informatics

- cGPA: 1.2/1.0

Dalian University of Technology

Bachelor of Engineering in Electronic Information Engineering

- cGPA: 3.93/4.0

Los Angeles, California, USA

Aug. 2022 – May. 2027(Anticipated)

Munich, Bavaria, Germany

Sep. 2021 – Jul. 2022

Dalian, Liaoning, China

Sep.2018 – Jun. 2021

PUBLICATIONS

RC-MVSNet: Unsupervised Multi-View Stereo with Neural Rendering

ECCV

Di Chang, Aljaž Božič, Tong Zhang, Qingsong Yan, Yingcong Chen, Sabine Süsstrunk, Matthias Nießner

2022

- We propose to use NeRF-like rendering to solve ambiguity of correspondences among views in unsupervised multi view stereo, caused by non-Lambertian surfaces and occlusion.
- We achieve state-of-the-art accuracy among all unsupervised MVS methods until now.

Generalized Binary Search Network for Highly-Efficient Multi-View Stereo

CVPR

Zhenxing Mi, Di Chang, Dan Xu

2022

- We formulate multi view stereo as a binary search problem, and accordingly design three mechanisms to respectively handle classification errors, deal with out-of-range samples and decrease the training memory.
- We achieve state-of-the-art accuracy, and second least memory consumption among all learning-based MVS methods until now.

EXPERIENCE

Research Intern(Remote Collaboration)

Wang's Group, UCSD

Jun. 2022 – Present

Mentor: Professor Xiaolong Wang

- Researching on 3D Vision, specifically Video Synthesis with Diffusion Models

Summer@EPFL Program

Funded by IVRL, École Polytechnique Fédérale de Lausanne

Jun. 2022 – Aug. 2022

Mentor: Professor Sabine Süsstrunk and Dr. Tong Zhang

- Researching on 3D Vision, specifically Video Synthesis with Diffusion Models

Guided Research

3D AI Group, TUM

Mar. 2021 – Jun. 2022

Mentor: Professor Angela Dai

- Researched on 3D Vision, specifically Single-View Category-level NeRF

Guided Research

Visual Computing and 3D AI Group, TUM

Sep. 2021 – Mar. 2022

Mentor: Professor Matthias Niessner and M.Sc Aljaž Božič

- Researched on 3D Vision, specifically Unsupervised Multi-View Geometry

Undergraduate Research Intern

Multimedia Lab, The Hong Kong University of Science and Technology

Mar. 2021 – Sep. 2021

Mentor: Professor Dan Xu

- Researched on 3D Vision, specifically Multi-View Stereo

ACADEMIC SERVICE

ECCV 2022

Conference Reviewer

NeurIPS 2022

Conference Reviewer

TEACHING

CSCI 103L Introduction to Programming

Teaching Assistant

USC

2022 Fall

SELECTED COURSES

Introduction to Deep Learning(TUM)

Deep Learning for 3D Perception(TUM)

3D Scanning and Spatial Learning(TUM)

3D Graphics and Rendering(USC)

SKILLS

Programming Languages: Python(Preferred and proficient), MATLAB,C/C++,Html

Frameworks: PyTorch, Keras, mmdetection