JIAPENG TANG

Department of Informatics, Boltzmannstraße 3, 85748 Garching, Germany
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EDUCATION

Technical University of Munich *Nov. 2021 - Present*
Ph.D. of Informatics Supervisor: Prof. Matthias Nießner

South China University of Technology *Sep. 2018 - Jun. 2021*
Master of Signal and Information Processing Supervisor: Prof. Kui Jia

South China University of Technology *Sep. 2014 - Jun. 2018*
Bachelor of Engineering, Information Engineering (Elite Class) GPA: 3.84/4

RESEARCH INTERESTS

3D Object/scene reconstruction, Neural implicit field, Diffusion models.

Shape deformation, Non-rigid tracking and reconstruction.

Depth estimation, Multi-view stereo, SLAM.

Novel view synthesis, Neural radiance field.

EXPERIENCE

The Chinese University of Hong Kong, Shenzhen *Jul. 2018 - Sep. 2018*
Summer Research Intern, Supervised by **Prof. Xiaoguang Han**

DAMO Academy, Alibaba Group *May 2020 - Oct. 2021*
Research Intern, Supervised by **Prof. Lei Zhang**

PUBLICATIONS

- **J. Tang**, L. Markhasin, B. Wang, J. Thies, M. Nießner. Neural Shape Deformation Priors, Neural Information Processing Systems (**NeurIPS**) 2022.
- X. Yu, **J. Tang**, Y. Qin, C. Li, L. Bao, X. Han, and S. Cui. PVSeRF: Joint Pixel-, Voxel-and Surface-Aligned Radiance Field for Single-Image Novel View Synthesis, ACM International Conference on Multimedia (**MM**), 2022.
- **J. Tang**, J. Lei, D. Xu, F. Ma, K. Jia, and L. Zhang. SA-ConvONet: Sign-Agnostic Optimization of Convolutional Occupancy Networks, International Conference on Computer Vision **(ICCV)**, 2021, **Oral presentation, 3.4%**.
- **J. Tang**, X. Han, M. Tan, X. Tong and K. Jia. SkeletonNet: A Topology-Preserving Solution for Learning Mesh Reconstruction of Object Surfaces from RGB Images, IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2021.
- **J. Tang**, D. Xu, K. Jia, and L. Zhang. Learning Parallel Dense Correspondence from Spatio-Temporal Descriptors for Efficient and Robust 4D Reconstruction. The IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

- J. Pan, X. Han, W. Chen, **J. Tang** and K. Jia. Deep Mesh Reconstruction from Single RGB Images via Topology Modification Networks, International Conference on Computer Vision (**ICCV**), 2019.
- **J. Tang**, X. Han, J. Pan K. Jia and X. Tong. A Skeleton-bridged Deep Learning Approach for Generating Meshes of Complex Topologies from Single RGB Images. The IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019, **Oral presentation, Best paper final lists, 0.8%.**

PROFESSIONAL SERVICES

Conference Reviewer: CVPR 2021, ICCV 2021, CVPR 2022.

Journal Reviewer: Transactions on Image Processing (TIP).

AWARDS

South China University of Technology Scholarship *2015-2020*

Merit Student of South China University of Technology *2015-2017*

SKILLS AND INTERESTS

Language: Native in Chinese (Mandarin), Fluent in English (IELTS 6.5)

Programming Language: Python, C/C++, Cuda, Matlab, LaTeX

Deep Learning Platform: PyTorch, TensorFlow

Sports: Basketball, Table tennis, Running, Swimming, and Hiking.

OTHERS

For more information, please visit my website at: https://tangjiapeng.github.io.