JIAPENG TANG

No.381 Wushan Road, Tianhe District, Guangzhou, P.R.China

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EDUCATION

South China University of Technology *Sept. 2018 - June. 2021 (Expected)*
Master of Signal and Information Processing, Supervised by Prof. Kui Jia GPA: 3.73/4

South China University of Technology *Sept. 2014 - June. 2018*
Bachelor of Engineering, Information Engineering GPA: 3.85/4 Ranking: 6/61

RESEARCH INTERESTS

3D Reconstruction, Mesh Generation, Multi View Stereo

PUBLICATIONS

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**

J. Pan, X. Han, W. Chen, **J. Tang** and K. Jia. Deep Mesh Reconstruction from Single RGB Images via Topology Modification Networks, (**ICCV**), 2019

EXPERIENCE

South China University of Technology *Sep. 2017 - Present*
Research Assistant, Supervised by **Prof. Kui Jia**
Focus on the deep learning based 3D reconstruction from single, multiple view images or point cloud.

The Chinese University of Hong Kong, Shenzhen *July. 2018 - Sep. 2018*
Summer Research Intern, Supervised by **Prof. Xiaoguang Han**
Focus on the topology-aware object mesh generation.

- Involve skeleton as structure representation, use VCGLib to extract skeleton for ShapeNet dataset.
- Propose a novel decoder to regress skeletal points from images.
- Design a skeleton-bridged pipeline to generate meshes with complex topologies.

AWARDS

South China University of Technology Scholarship *2015-2017*

Merit Student of South China University of Technology *2016-2017*

OTHERS

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

Deep Learning Platform: PyTorch, TensorFlow