Fenggen Yu

CONTACT INFORMATION

School of Computing Science ,Simon Fraser University, BC, Canada

Homepage: https://fenggenyu.github.io

E-mail: fenggen_yu@sfu.ca

RESEARCH INTERESTS

Computer Graphics, and Computer Vision

3D Shape Recognition and Reconstruction, Geometric Modeling and Geometric Deep Learning

EDUCATION

Ph.d., Computing Science, Simon Fraser University, 2019-current

Master, Computer Science & Technology, Nanjing University, 2016-2019

Bachelor, Computer Science & Technology, Nanjing University, 2012-2016

HONORS AND GRANDS

SFU Graduate Fellowships, 2019-2020,2020-2021

SFU Graduate Dean's Entrance Scholarship, 2019(Top 3%)

The National Scholarship of Graduate Student, 2018(Top 3%)

Excellent Graduate Student of Nanjing University, 2017(Top 10%)

Excellent Under Graduate Student of Nanjing University, 2016(Top 10%)

The National Scholarship of Undergraduate Student, 2015(Top 3%)

REFEREED JOURNAL PUBLICATIONS

1. **Fenggen Yu**, Zhiqin Chen, Manyi Li, Aditya Sanghi, Hooman Shayani, Ali Mahdavi-Amiri, and Hao Zhang, “CAPRI-Net: Learning Compact CAD Shapes with Adaptive Primitive Assembly”, *2021.*
2. Ali Mahdavi-Amiri, **Fenggen Yu**, Haisen Zhao, Adriana Schulz, and Hao Zhang, “VDAC:Volume Decompose-and-Carve for Subtractive Manufacturing", conditionally accepted to *ACM Transactions on Graphics (Special Issue of SIGGRAPH Asia)*, 2020
2. **Fenggen Yu**, Kun Liu, Yan Zhang, Chengyang Zhu, Kai Xu, “PartNet: A Recursive Part Decomposition Network for Hierarchical Segmentation of 3D Shapes.” *Computer Vision and Pattern Recognition (CVPR 2019)*
3. **Fenggen Yu,** Yan Zhang, Kai Xu, Ali Mahdavi-Amiri, Hao Zhang, “Semi-Supervised

Co- Analysis of 3D Shape Styles from Projected Lines," *ACM Trans. On Graphics (presented at SIGGRAPH 2018)*

4. **Fenggen Yu**, Zhongyu Sun, Panpan Shui, Yan Zhang, Zhengxing Sun, "User-Driven 3D Models Dynamic Classification Based on Interactive," *CAD/Graphics 2017*
5. Pengyu Wang, Yuan Gan, Panpan Shui, **Fenggen Yu**, Yan Zhang, Songle Chen, Zhengxing Sun, "3D Shape Segmentation via Shape Fully Convolutional Networks," *CAD/Graphics 2017*
6. PanPan Shui, Pengyu Wang, **Fenggen Yu**, Bingyang Hu, Yuan Gan, Kun Liu, Yan Zhang, "3D Shape Segmentation Based on Viewpoint Entropy and Projective Fully Convolutional Networks Fusing Multi-view Features," *International Conference on Pattern Recognition(ICPR 2018)*
7. Yuan Gan, Pengyu Wang, Kun Liu, **Fenggen Yu**, Panpan Shui, Bingyang Hu, Yan Zhang, Zhengxing Sun, *ICCV 2017 ShapeNet challenge, 3rd*
8. Yan Zhang, Wentao Wu, **Fenggen Yu**, Zhongyu Sun, Shaoshan Zhu, Zhengxing Sun, "3D shape classification method based on NMF," *Patent 2016*

ACADEMIC SERVICE

Reviewer of Computers & Graphics (An International Journal of Systems & Applications in Computer Graphics)

Reviewer of Frontiers of Computer Science

Reviewer of Journal of Visual Communication and Image Representation

WORK EXPERIENCE

Huawei Canada, AI researcher internship, 2021 May-2021 August.

TEACH EXPERIENCE

Spring 2021 - CMPT 743 G101 practices in visual computing II

SKILLS AND INTERESTES

Matlab, Python, C++, Java

Pytorch, Tensorflow, OpenGL, VTK