Haoran MO

Personal Information

Institution:	School of Computer Science and Engineering, Sun Yat-sen University
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Research Interests

I work on deep learning based Computer Graphics and Computer Vision, particularly in sketch (line art) generation, sketch understanding, sketch-based computer-aided design (CAD) and sketch-based applications incorporated with multimedia.

Education

Sep 2020 - June 2024 (Expected)	Ph.D. at **Sun Yat-sen University**, Guangzhou Major: Software Engineering
Sep 2018 - June 2020	Master of Science in Engineering, **Sun Yat-sen University**, Guangzhou Major: Software Engineering Thesis: "Automatic Colorization of Scene Sketches Based on Deep Learning"
Sep 2014 - June 2018	Bachelor Degree in Engineering, **Sun Yat-sen University**, Guangzhou Major: Software Engineering Thesis: "Sketch Recognition and Semantic Segmentation Based on Neural Network"

Publications

1. **Haoran Mo**, Edgar Simo-Serra, Chengying Gao*, Changqing Zou, and Ruomei Wang. General Virtual Sketching Framework for Vector Line Art. *ACM Transactions on Graphics* (Proceedings of SIGGRAPH), 2021.
2. Changqing Zou†, **Haoran Mo**†(equal contribution), Chengying Gao*, Ruofei Du and Hongbo Fu. Language-based Colorization of Scene Sketches. *ACM Transactions on Graphics* (Proceedings of SIGGRAPH Asia), 2019.
3. Ruizhi Cao, **Haoran Mo** and Chengying Gao*. Line Art Colorization Based on Explicit Region Segmentation. *Computer Graphics Forum* (Proceedings of Pacific Graphics), 2021.
4. Changqing Zou†, Qian Yu†, Ruofei Du, **Haoran Mo**, Yi-Zhe Song, Tao Xiang, Chengying Gao, Baoquan Chen* and Hao Zhang. SketchyScene: Richly-Annotated Scene Sketches. *European Conference on Computer Vision* (ECCV), 2018.

Other Experience

May-July 2019	Research Intern, **Waseda University**, Tokyo Adviser: Prof. Edgar Simo-Serra Research on sketch generation and simplification.

Talks

Aug 2021	"General Virtual Sketching Framework for Vector Line Art" *SIGGRAPH 2021* (virtual)
May 2021	"General Virtual Sketching Framework for Vector Line Art" *CAD/Graphics 2021* (Xi'an, China)
Nov 2019	"Language-based Colorization of Scene Sketches" *SIGGRAPH Asia 2019* (Brisbane, Australia)

Awards

1. 4D SHOETECH CAD&CG Outstanding Student, 2021.

Skills

Programming Languages: Python, Matlab
Deep Learning Frameworks: Tensorflow, PyTorch

Languages

Mandarin (Basic), Cantonese (Native), English (Fluent)