

Haoran MO

PERSONAL INFORMATION

INSTITUTION: School of Computer Science and Engineering, Sun Yat-sen University
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GITHUB: <https://github.com/MarkMoHR>

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* (SIGGRAPH, Journal track), 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* (SIGGRAPH Asia, Journal track), 2019.
3. Peng Ling, **Haoran Mo** and Chengying Gao*. Multi-instance Referring Image Segmentation of Scene Sketches based on Global Reference Mechanism. *Pacific Graphics*, 2022.
4. Yue Huang, **Haoran Mo**, Xiao Liang and Chengying Gao*. Unpaired Motion Style Transfer with Motion-oriented Projection Flow Network. *IEEE International Conference on Multimedia & Expo* (ICME), 2022.
5. Ruizhi Cao, **Haoran Mo** and Chengying Gao*. Line Art Colorization Based on Explicit Region Segmentation. *Computer Graphics Forum* (Pacific Graphics, Journal track), 2021.
6. 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.
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TALKS

AUG 2021	“General Virtual Sketching Framework for Vector Line Art” <i>SIGGRAPH 2021</i> (virtual)
MAY 2021	“General Virtual Sketching Framework for Vector Line Art” <i>CAD/Graphics 2021</i> (Xi'an, China)
Nov 2019	“Language-based Colorization of Scene Sketches” <i>SIGGRAPH Asia 2019</i> (Brisbane, Australia)

AWARDS

1. Shidi CAD & CG Excellent Student Award, 2021.

SKILLS

Programming Languages: PYTHON, MATLAB
Deep Learning Frameworks: TENSORFLOW, PYTORCH

LANGUAGES

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