Hai Jiang

Sichuan University
School of Aeronautics and Astronautics

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G Google Scholar
○ GitHub Profile

EDUCATION

•Ph.D. - Sichuan University   *2023-present*
Aeronautical and Astronautical Science and Technology   Supervisor: Prof. Songchen Han

•Master - Sichuan University   *2020-2023*
Aeronautical and Astronautical Science and Technology   Supervisor: Prof. Songchen Han

•Bachelor - Sichuan University   *2016-2020*
Aircraft Control and Information Engineering   Supervisor: Prof. Songchen Han

PROFESSIONAL EXPERIENCES

•Research Inter - Megvii Technology   *Jan. 2022-present*
Research area: Homograph Estimation and Low-Light Image Enahncement   Supervisor: Prof. Shuaicheng Liu

SELECTED PUBLICATIONS

•∗: Equal contributions, †: Corresponding author

•Low-Light Image Enhancement with Wavelet-based Diffusion Models

Hai Jiang, Ao Luo, Haoqiang Fan, Songchen Han, Shuaicheng Liu†.

ACM Transactions on Graphics **(ToG, Proceedings of SIGGRAPH Asia)**, 2023. [PDF] [GitHub]

•Supervised Homography Learning with Realistic Dataset Generation

Hai Jiang∗, Haipeng Li∗, Songchen Han†, Haoqiang Fan, Bing Zeng, Shuaicheng Liu†.

International Conference on Computer Vision **(ICCV)**, 2023. [PDF] [GitHub]

•Semi-supervised Deep Large-Baseline Homography Estimation with Progressive Equivalence Constraint

Hai Jiang∗, Haipeng Li∗, Yuhang Lu, Songchen Han†, Shuaicheng Liu†.

Thirty-Seventh AAAI Conference on Artificial Intelligence **(AAAI)**, 2023. [PDF] [GitHub]

•Unsupervised Global and Local Homography Estimation with Motion Basis Learning

Shuaicheng Liu†, Yuhang Lu, **Hai Jiang**, Nianjin Ye, Chuang Wang, Bing Zeng.

IEEE Transactions on Pattern Analysis and Machine Intelligence **(TPAMI)**, 2023. [PDF] [GitHub]

•R2RNet: Low-Light Image Enhancement via Real-low to Real-normal Network

Hai Jiang, Xuan Zhu, Yang Ren, Yutong Hao, Fengzhu Zou, Lin Fang, Songchen Han†.

Journal of Visual Communication and Image Representation **(JVCIR)**, 2023. [PDF] [GitHub]

ACADEMIC SERVICES

•Conference Reviewer:

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024

•Journal Reviewer:

International Journal of Computer Vision (IJCV)

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

IEEE Signal Processing Letters (SPL)

Computer Vision and Image Understanding (CVIU)

Computers & Graphics (CG)

TECHNICAL SKILLS

Languages: CET-4, CET-6
Skills: Office, Python, Matlab

ACHIEVEMENTS

•First Prize Sichuan University 2023 Master's Thesis   *Jun. 2023*
•Third Prize Sichuan University 2020 Undergraduate Graduation Design (Thesis)   *Jun. 2020*