Hai Jiang
Sichuan University
School of Aeronautics and Astronautics

jianghai1@stu.scu.edu.cn
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

•Low-Light Image Enhancement with Wavelet-based Diffusion Models.
Hai Jiang, Ao Luo, Songchen Han, Haoqiang Fan, 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]

•Advanced RetinexNet: A Fully Convolutional Network for Low-Light Image Enhancement
Hai Jiang, Yutong Hao, Fengzhu Zou, Fang Lin, Songchen Han.
Signal Processing: Image Communication **(SPIC)**, 2023. [PDF] [GitHub]

Academic Services

•Journal Reivewer:
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)

Technical Skills

Languages: CET-4/6, GEE-81
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*