



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 Enhancement 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. [\[PDF\]](#) [\[GitHub\]](#)

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-4/6, 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