



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

PUBLICATIONS

•*: Equal contributions, †: Corresponding author

- [1]. **Hai Jiang**, Yang Ren, Songchen Han[†]. “Revisiting Coarse-to-fine Strategy for Low-Light Image Enhancement with Deep Decomposition Guided Training”. *Computer Vision and Image Understanding (CVIU)*, 2024. [\[PDF\]](#) [\[GitHub\]](#)
- [2]. **Hai Jiang**, Ao Luo, Haoqiang Fan, Songchen Han, Shuaicheng Liu[†]. “Low-Light Image Enhancement with Wavelet-based Diffusion Models”. *ACM Transactions on Graphics (ToG, Proceedings of SIGGRAPH Asia)*, 2023. [\[PDF\]](#) [\[GitHub\]](#)
- [3]. **Hai Jiang**^{*}, Haipeng Li^{*}, Songchen Han[†], Haoqiang Fan, Bing Zeng, Shuaicheng Liu[†]. “Supervised Homography Learning with Realistic Dataset Generation”. *International Conference on Computer Vision (ICCV)*, 2023. [\[PDF\]](#) [\[GitHub\]](#)
- [4]. **Hai Jiang**^{*}, Haipeng Li^{*}, Yuhang Lu, Songchen Han[†], Shuaicheng Liu[†]. “Semi-supervised Deep Large-Baseline Homography Estimation with Progressive Equivalence Constraint”. *Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI)*, 2023. [\[PDF\]](#) [\[GitHub\]](#)
- [5]. Shuaicheng Liu[†], Yuhang Lu, **Hai Jiang**, Nianjin Ye, Chuang Wang, Bing Zeng. “Unsupervised Global and Local Homography Estimation with Motion Basis Learning”. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2023. [\[PDF\]](#) [\[GitHub\]](#)
- [6]. **Hai Jiang**, Xuan Zhu, Yang Ren, Yutong Hao, Fengzhu Zou, Lin Fang, Songchen Han[†]. “R2RNet: Low-Light Image Enhancement via Real-low to Real-normal Network”. *Journal of Visual Communication and Image Representation (JVCIR)*, 2023. [\[PDF\]](#) [\[GitHub\]](#)
- [7]. **Hai Jiang**, Yutong Hao, Fengzhu Zou, Lin Fang, Songchen Han[†]. “Advanced RetinexNet: A Fully Convolutional Network for Low-light Image Enhancement”. *Signal Processing: Image Communication (SPIC)*, 2023. [\[PDF\]](#)
- [8]. **Hai Jiang**, Yang Ren, Yaqi Yu, Songchen Han[†]. “Combining Spatial and Frequency Information for Image Deblurring”. *IEEE Signal Processing Letters (SPL)*, 2022. [\[PDF\]](#)
- [9]. **Hai Jiang**, Yutong Hao, Fengzhu Zou, Lin Fang, Songchen Han[†]. “A Visual Navigation System for UAV Under Diverse Illumination Conditions”. *Applied Artificial Intelligence (UAAI)*, 2021. [\[PDF\]](#)

ACADEMIC SERVICES

•Conference Reviewer:

European Conference on Computer Vision (ECCV), 2024

ACM SIGGRAPH, 2024

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

IEEE International Conference on Multimedia and Expo (ICME), 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

•**Distinguished** Master's Thesis of Sichuan University

Jun. 2023

•**Third Prize** Undergraduate Graduation Design (Thesis) of Sichuan University

Jun. 2020