Jian Gao

Email: jian_gao@whu.edu.cn

[Website]   [Google Scholar]

I will graduate from Wuhan University in June 2023 with a Master's degree under the supervision of Prof. Shunping Ji. My current research interests are focused on *deep learning based multi-view stereo*, *3D reconstruction from optical satellite images and drone images* and other 3D related topics.

Education

M.S. Pattern Recognition and Intelligent Systems   **Sept. 2020 – June 2023**

Wuhan University   **Wuhan, Hubei, China**

School of Remote Sensing and Information Engineering

Thesis: Research on Learning Based Dense Match Algorithm for Multi-View Optical Satellite Images

Supervised by Prof. Shunping Ji

B.S. Science and Technology of Remote Sensing   **Sept.2016 – June 2020**

Wuhan University   **Wuhan, Hubei, China**

School of Remote Sensing and Information Engineering

GPA: **3.86** / 4.0 Rank: **6** / 201

Publications

[1] **J. Gao**, J. Liu and S. Ji, "Rational Polynomial Camera Model Warping for Deep Learning Based Satellite Multi-View Stereo Matching," 2021 IEEE/CVF International Conference on Computer Vision (**ICCV**), Montreal, QC, Canada, 2021, pp. 6128-6137, doi: 10.1109/ICCV48922.2021.00609.

[2] **J. Gao**, J. Liu, and S. Ji, "A general deep learning based framework for 3D reconstruction from multi-view stereo satellite images," ISPRS Journal of Photogrammetry and Remote Sensing, vol. 195, pp. 446–461, Jan. 2023, doi: 10.1016/j.isprsjprs.2022.12.012.   **(IF: 11.774)**

Work Experience

Teaching Assistant   **Feb. 2020 – July. 2020 & Feb. 2021 – July. 2021**

Course: Computer Vision and Pattern Recognition

Lecture: Practical guidance for 3D reconstruction based on multi-view stereo images

Research Skills

Experienced in photogrammetry and multi-view 3D reconstruction.

Experienced in C/C++, Python. Familiar with PyTorch, OpenCV and CUDA.

Hours & Awards

- Wang Zhizhuo innovative talent scholarship   Dec. 20th, 2019
- First Class Entrance Scholarship for New Students   Sept. 10th, 2020
- Outstanding Graduates   May 4th, 2020
- Excellent Student Cadre   May 4th, 2019
- 8th Asian and Pacific Mathematical Contest in Modeling (First Prize)   Jan. 28th, 2019
- 9th MatherCup College Mathematical Modeling Challenge (Second Prize)   Jun. 5th, 2019