Resume of Teng XIAO

Basic Information

School :	School of Computer Science
Gender：	Male
Date of Birth：	1990.06
Title：	Lecturer
Education：	Ph.D of Engineering
Tutor：	Master degree
Email:	xiao@hbut.edu.cn
Interest of research:	Computer graphics and image processing

Academic Background

From September 2009 to July 2013,Wuhan University, Bachelor's degree in Surying and Mapping Engineering;
From September 2013 to July 2016, Wuhan University, Master's degree of Photogrammetry and Remote Sensing;
From September 2016 to July 2021, Wuhan University, Ph.D of Photogrammetry and Remote Sensing.

Oversea visiting

2018/12-2019/12, Visitting PhD student, Leibniz University Hannover, Germany;

Enrollment Information

1. Enrollment Discipline: Master of Engineering
2. Research direction: Intelligent application technology in computer vision
3. Enrollment Year: 2023-2024

Representative Projects

1. National Natural Science Foundation of China " Research on Disambiguating Repetitive Structures in 3D Reconstruction from Aerial and Ground Images", China, Project leader.
2. Hubei Key Research and Development Project "Key technologies of multi-source data intelligent 3D modeling for virtual reality ", Hubei Province, Project leader.
3. HBUT scientific research start-up project "Visual-inertial Fusion method in Quadruped Robot for Indoor 3D Reconstruction ", Project leader.

Representative Articles

1. Xiao T, Wang X, Mei X, Ye Z, Yan Q, Deng F (2023).Robust Merging of Subblock

Reconstructions for Parallel Structure from Motion. Acta Geodaetica et Cartographica Sinica (Chinese edition). accepted.
2. Xiao T (2023).Research on robust structure from motion via optimizing view-graph. Acta Geodaetica et Cartographica Sinica (Chinese edition). 52(6), 1042.
3. Xiao T, Guo S, Wu L, Yan Q, Deng F. (2023). A Criterion of Radial Distortion on Structure from Motion with Consumer-Grade Cameras. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 48, 383-385.
4. Wu L, Xiao T, Li H, Deng F. (2023). A Distributed Bundle Adjustment Method Using Iterative Motion Averaging. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 48, 379-381.
5. Wang C, Xiao T, Gong Z, Yang S, Zhang D, Deng F. (2023). Wireless Binocular Stereovision Measurement System Based on Improved Coarse-to-Fine Matching Algorithm. Structural Control and Health Monitoring, 2023.
6. Qu Y, Yan Q, Yang J, Xiao T, Deng F (2022).Total differential photometric mesh refinement with self-adapted mesh denoising.Photonics.2022,10(1).
7. Wan F, Sun C, He H, Lei G, Xu L, Xiao T (2022).YOLO-LRDD: A Lightweight Method for Road Damage Detection Based on Improved YOLOv5s. EURASIP Journal on Advances in Signal Processing, 2022(98):1-18.
8. Xiao T, Yan Q, Ma W, Deng F (2021). Progressive structure from motion by iteratively prioritizing and refining match pairs. Remote Sensing, 13(12):2340.
9. Xiao T, Wang X, Deng F, Heipke C (2021). Sequential cycle consistency inference for eliminating incorrect relative orientations in structure from motion. PFG–Journal of Photogrammetry, Remote Sensing and Geoinformation Science, pp.1–17.
10. Wang X, Xiao T, Kasten Y (2021). A hybrid global structure from motion method for synchronously estimating global rotations and global translations. ISPRS Journal of Photogrammetry and Remote Sensing, 174:35–55.
11. Deng F, Yan Q, Xiao T (2020).A GPU-PatchMatch multi-view dense matching algorithm based on parallel propagation. Acta Geodaetica et Cartographica Sinica (Chinese edition), 48(06):22-31.
12. Wang X, Xiao T, Gruber M, Heipke C (2019). Robustifying relative orientations with respect to repetitive structures and very short baselines for global SfM. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops.