Houcai Guo

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GitHub: https://github.com/RemoteSensingBeginner

Address: No. 1, Wenyuan Road, Qixia District, Nanjing, Jiangsu Province, China

EDUCATION

- M.Sc. in Remote Sensing of Geographical Environment   Sept., 2020 – Jun., 2023 (Expected)

  School of Geography, Nanjing Normal University

- B.Sc. in Geographical Information Science   Sept., 2016 – Jun., 2020

  School of Resource and Environment, Henan University of Economics and Law

RESEARCH INTERESTS

- Registration of remote sensing images
- Time series analysis of remote sensing images
- Urban remote sensing

PUBLICATIONS

1. **Guo, H.,** Xu, H., Wei, Y.*, Shen, Y., & Rui, X. (2022). Outlier Removal and Feature Point Pairs Optimization for Piecewise Linear Transformation in the Co-registration of Very High-resolution Optical Satellite Imagery. ***ISPRS Journal of Photogrammetry and Remote Sensing*. (Major Revision, SCI, JCR: Q1, IF 2021: 11.774)**

2. **Guo, H.,** Xu, H., Wei, Y.*, & Shen, Y. (2022). Point Pairs Optimization for Piecewise Linear Transformation of Multimodal Remote Sensing Images by the Similarity of Log-Gabor Features. ***IEEE Geoscience and Remote Sensing Letters*. (Undergoing Review, SCI, JCR: Q2, IF 2021: 5.343)**

HONORS AND AWARDS

1. NG Teng Fong / Sino Scholarship, Henan University of Economics and Law   2020
2. Excellent Undergraduate's Dissertation, School of Resource and Environment   2020
3. First-class Scholarships for Postgraduate Studies, Nanjing Normal University
   First Place in the Entrance Exam   2020
4. Second-class Scholarships for Postgraduate Studies, Nanjing Normal University   2021
5. "Sharing Cup" Innovation Competition of Science and Technology Resources Sharing Service, National
   Excellent Price, Participant   2021
6. "Huawei Cup" The 18th China Post-graduate Mathematical Contest in Modeling, National
   Third Price, Team Leader   2021
7. Advanced Individual in Scientific and Technological Activities, Nanjing Normal University   2021

INTERNSHIP

- **PIESAT,** Image Analyst Intern, Nanjing, China   Jun., 2018 – Aug. 2018

  Participated in the Third National Land Survey of China, investigated the land use status through visual interpretation.

SKILLS AND QUALIFICATIONS

- Digital image processing using Python, including Skimage, Numpy, Matplotlib, Scipy, Sklearn, Rasterio, GDAL, ect., Matlab, C#, C

- Mandarin, English (CET-6)
- ENVI, ArcMap, EndNote, Microsoft Office, Drawio