

Zhiwei Li (李志伟)

Assistant Research Fellow, Wuhan University

Phone: (+86)130-0639-8903 Email: lizw@whu.edu.cn

Address: 129 Luoyu Road, Hongshan District, Wuhan, China

Homepages: [Personal Website](#) [Google Scholar](#) [ResearchGate](#)

EDUCATION

09/2015 - 06/2020 Ph.D. in Cartography and Geographic Information Engineering, Wuhan University

09/2011 - 06/2015 B.Eng. in Geo-information Science and Technology, China University of Geosciences

WORK EXPERIENCE

11/2020 - Present Assistant Research Fellow, School of Resource and Environmental Sciences, Wuhan University

07/2020 - Present Postdoctoral Fellow, School of Resource and Environmental Sciences, Wuhan University

RESEARCH INTERESTS

- ◆ Remote Sensing
- ◆ Cloud Detection and Removal
- ◆ Land Use & Land Cover
- ◆ Flood Monitoring

TEACHING AND SERVICES

Teaching Assistant:

- ◆ 02/2017 - 06/2017 Undergraduate courses of Digital Image Processing, Contemporary Remote Sensing
- Conducted curricular practical training and participated in preparing course slides and course Q&A, etc.
- ◆ 02/2019 - 06/2019 Postgraduate course of Remote Sensing Image Processing
- Participated in preparing and teaching the course, including introduction to deep learning and its applications
- ◆ 02/2019 - 06/2021 Supervision of student dissertation
- Helped to supervise eight undergraduate/postgraduate students to complete graduation thesis

Journal Reviewer:

- ◆ ISPRS Journal of Photogrammetry and Remote Sensing, IEEE Transactions on Geoscience and Remote Sensing, Remote Sensing, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, IEEE Geoscience and Remote Sensing Letters, Geocarto International

HONORS & AWARDS

2021 Hubei Science and Technology Progress Award for Surveying and Mapping, Third Prize

2020 Outstanding Ph.D. Graduates Award, Wuhan University

2019 Wang Zhizhuo Innovation Talent Scholarship, Grand Prize, Wuhan University (awarded to two graduate students)

2019 National Scholarship for Doctoral Students, Ministry of Education

2018 Outstanding Graduate Students Award, Wuhan University

2017 Graduate Academic Innovation Award, First Prize, Wuhan University (awarded to <1% of graduate students)

2015 Excellent Bachelor's Dissertation in Hubei Province

PROJECTS

Principal Investigator:

- ◆ Thick Cloud Processing Methods for Time-series Remote Sensing Images in Tensor Space, National Natural Science Foundation of China (NSFC), RMB 300, 000, 01/2022-12/2024.

- ◆ Tensor-based Seamless Reconstruction Methods for Time-series Remotely Sensed Data, China Postdoctoral Science Foundation, RMB 80, 000, 07/2021-06/2023.
- ◆ Joint Cloud Processing Methods for Multi-source Domestic Satellite Imagery, China Postdoctoral Science Foundation, RMB 180, 000, 07/2020-06/2022.

Project Technical Leader:

- ◆ Technology and Application of Deep Learning Based Cloud Extraction in Satellite Images, Province Surveying Mapping Production Archives of Hubei, 08/2019-12/2019.
- ◆ Automatic Extraction Technology for Remote Sensing of Emergency Monitoring Targets, Hubei Land and Resources Research Institute, 05/2017-12/2017.
- ◆ Development of Automatic Cloud Detection Software for Image Quality Inspection, China Land Survey and Planning Institute (CLSPI), 03/2016-12/2016.

PUBLICATIONS

Research impact metrics (as of March 30, 2022):

Google Scholar H-index 10 811 Total Citations

Selected Journal Articles (* corresponding author, # co-first author)

1. Dou, P., Shen, H., **Li, Z.***, Guan, X., 2021. Time series remote sensing image classification framework using combination of deep learning and multiple classifiers system. *International Journal of Applied Earth Observation and Geoinformation*. 103, 102477. [PDF]
2. Zhang, Q., Yuan, Q.*, **Li, Z.***, Sun, F., Zhang, L., 2021. Combined deep prior with low-rank tensor SVD for thick cloud removal in multitemporal images. *ISPRS Journal of Photogrammetry and Remote Sensing*. 177, 161-173. [PDF] [Dataset]
3. Dou, P., Shen, H., **Li, Z.***, Guan, X., Huang, W., 2021. Remote Sensing Image Classification Using Deep-Shallow Learning. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 14, 3070–3083. [PDF] (中科院 3 区, JCR Q2, IF = 3.784)
4. Zhang, Q., Yuan, Q., Li, J., **Li, Z.**, Shen, H., Zhang, L., 2020. Thick cloud and cloud shadow removal in multitemporal imagery using progressively spatio-temporal patch group deep learning. *ISPRS Journal of Photogrammetry and Remote Sensing*. 162, 148-160. [PDF] [Code] [Dataset]
5. Yuan, Q., Shen, H., Li, T., **Li, Z.**, Li, S., Jiang, Y., Xu, H., Tan, W., Yang, Q., Wang, J., Gao, J., Zhang, L., 2020. Deep learning in environmental remote sensing: Achievements and challenges. *Remote Sensing of Environment*. 241, 111716. [PDF]
6. Wang, Y., **Li, Z.**, Zeng, C., Xia, G., Shen, H., 2020. An Urban Water Extraction Method Combining Deep Learning and Google Earth Engine. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 13, 768-781. [PDF] [Code] [Dataset]
7. Li, X.#, **Li, Z.#**, Feng, R., Luo, S., Zhang, C., Jiang, M., Shen, H., 2020. Generating high-quality and high-resolution seamless satellite imagery for large-scale urban regions. *Remote Sensing*. 12, 81. [PDF]
8. **Li, Z.**, Shen, H., Cheng, Q., Li W., Zhang L., 2019. Thick cloud removal in high-resolution satellite images by stepwise radiometric adjustment and residual correction. *Remote Sensing*. 11, 1925. [PDF]
9. **Li, Z.**, Shen, H., Cheng, Q., Liu, Y., You, S., He, Z., 2019. Deep learning based cloud detection for medium and high resolution remote sensing images of different sensors. *ISPRS Journal of Photogrammetry and Remote Sensing*. 150, 197–212. [PDF] [Project] [Dataset]
10. **Li, Z.**, Shen, H., Li, H., Xia, G., Gamba, P., Zhang, L., 2017. Multi-feature combined cloud and cloud shadow detection in GaoFen-1 wide field of view imagery. *Remote Sensing of Environment*. 191, 342–358. [PDF] [Project] [Dataset]