

Special Issue

Advanced Learning Techniques for Remote Sensing Image Quality Improvement

Message from the Guest Editors

Remote sensing image quality improvement, e.g., image super-resolution, image fusion, and image deblurring, are important foundations and prerequisites for many downstream remote sensing applications. In recent years, although substantial progress has been made in the above directions, there are still some open problems and challenges, such as how recent learning techniques (e.g., deep learning, generative neural networks) reshape and benefit remote sensing image processing, how to effectively evaluate the quality of remote sensing images, and how to deal with the rapidly growing data volume as well as their diverse modalities. The potential topics may include but are not limited to:

- RS image super-resolution;
- Image registration and pan-sharpening;
- Hyperspectral image denoising;
- Deep-learning-based RS image processing;
- Multimodal data fusion between hyperspectral imagery with other data sources;
- Cloud detection and removal in remote sensing images;
- RS image quality assignment;
- Advanced deep learning models, and physics-informed neural networks;
- Applications of RS image quality improvement in agriculture, marine, meteorology, and other fields

Guest Editors

Prof. Dr. Zhengxia Zou

Dr. Zhou Zhang

Dr. Haopeng Zhang

Dr. Feng Gao

Deadline for manuscript submissions

closed (31 August 2023)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/103833

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)





Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)



About the Journal

Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)