

## 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

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2023)



## Remote Sensing

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### 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.

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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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