

## Special Issue

# Advances in Methods and Techniques for Satellite Image Processing and Analysis

### Message from the Guest Editor

This Special Issue aims to publish studies covering different uses of machine learning models, as well as the utilization and fusion of various sensors and platforms in remote sensing. Review and research papers on cutting-edge CNNs and vision transformer-based methods for machine learning, architectures, and structures for applications in remote sensing will be published in this Special Issue, with an emphasis on tasks that address the problems in this field.

Potential topics of interest include, but are not limited to, the following:

- Shallow and deep learning remote sensing image interpretation and analysis (image classification, pan-sharpening, image enhancement, object detection, semantic segmentation, and change detection).
- Graphic, adversarial, unsupervised, semi-supervised, self-supervised, active, and transfer learning for dealing with limited and/or low-quality data.
- Knowledge acquisition of deep learning models for remote sensing imagery.
- Novel benchmark datasets for remote sensing image analysis.
- Applications of Vision Transformers (ViTs) in remote sensing.

### Guest Editor

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### Deadline for manuscript submissions

15 December 2025



## Remote Sensing

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## 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.

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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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