

## Special Issue

# Intelligent Interpretation of Remote Sensing Imagery: AI-Enhanced Monitoring of Geographical and Geological Environments

### Message from the Guest Editors

This Special Issue is dedicated to showcasing the latest breakthroughs in AI-driven methodologies for the interpretation of remote sensing data, with a specific focus on applications within geographical and geological systems. By harnessing the power of AI, we aim to move beyond traditional analysis towards the development of robust, efficient, and intelligent monitoring frameworks. These advancements are crucial for building resilient infrastructure, ensuring sustainable land use, and improving our understanding of Earth's surface processes. Topics of interest include, but are not limited to, the following:

- AI Models for Remote Sensing: Novel deep learning architectures for image classification, segmentation, and object detection.
- Geological and Geohazard Monitoring.
- Geographical Environment Analysis.
- Engineering and Infrastructure Applications.
- Multi-source Data Fusion: Integration of optical, SAR, LiDAR, and hyperspectral data for a comprehensive environmental understanding.
- Change Detection and Time-Series Analysis: Monitoring dynamic changes in geographical and geological landscapes over time.

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### Guest Editors

Dr. Yusen Dong  
Dr. Yuewei Wang  
Dr. Kang He

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### Deadline for manuscript submissions

31 October 2026



## Remote Sensing

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CiteScore 9.4



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## About the Journal

### Message from the Editorial Board

*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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### Editors-in-Chief

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