

## Special Issue

# Integrating Remote Sensing, Machine Learning, and Process-Based Modelling for Monitoring Environmental and Agricultural Landscapes Under Climate Change

### Message from the Guest Editors

This Special Issue will focus on the adoption and integration of advanced remote sensing technologies, process-based and biophysical models, and cutting-edge machine learning (ML), artificial intelligence (AI), and deep learning (DL) algorithms. The aim is to develop robust frameworks for monitoring, analysing, and managing environmental and agricultural landscapes in the context of land-use changes, evolving impacts of climate change, and feedback from the Intergovernmental Panel on Climate Change (IPCC). We invite contributions that explore innovative methodologies and their applications, including, but not limited to, the following:

- Development and implementation of remote sensing technologies for multiscale monitoring (local, regional, and global applications);
- Synergistic use of remote sensing with process-based and biophysical models to enhance predictive capabilities;
- Incorporation of ML, AI, and DL for automating and improving the accuracy of environmental assessments;
- Case studies (e.g., ongoing local, regional, and global issues) demonstrating adaptive management practices informed by remote sensing and modelling insights;

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### Guest Editors

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### Deadline for manuscript submissions



## Remote Sensing

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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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