

## Special Issue

# Satellite Remote Sensing for Meteorological Disaster Monitoring and Forecasting

### Message from the Guest Editors

The aim of this Special Issue is to present recent developments in the use of satellite remote sensing for the monitoring and forecasting of meteorological disasters. Invited contributions may cover innovative techniques, data integration methods, and case studies that highlight the application of remote sensing for real-time disaster tracking, early warning, and post-disaster assessment. In this Special Issue, original research articles and reviews are welcome. We invite submissions across a range of topics, including (but not limited to) the following:

- Techniques for integrating satellite data with ground-based observations and model outputs;
- Advanced data assimilation methods to improve meteorological disaster forecasting;
- Real-time systems for early detection of meteorological hazards;
- Recent satellite missions designed for atmospheric monitoring;
- Algorithm for automating disaster detection and tracking;
- Studies linking satellite observation to climate-induced changes in disaster patterns;
- Remote sensing for evaluating the impacts of meteorological disasters;
- Novel remote sensing technologies that enhance disaster monitoring capabilities.

### Guest Editors

Dr. Dimitrios Katsanos

Institute for Environmental Research and Sustainable Development (IERSD), National Observatory of Athens (NOA), National Observatory of Athens, Athens, Greece

Dr. Adrianos Retalis

Institute for Environmental Research & Sustainable Development (IERSD), National Observatory of Athens (NOA), 15236 Athens, Greece

### Deadline for manuscript submissions

30 December 2025



## Remote Sensing

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

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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

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

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