

## Special Issue

# Multi-Source Atmospheric Remote Sensing: Enabling High-Precision Meteorological Monitoring and Forecasting

### Message from the Guest Editors

For this Special Issue, we welcome contributions from researchers in atmospheric sciences, remote sensing, data assimilation, and environmental modeling to share their latest findings on the application of multi-source atmospheric remote sensing for refined weather monitoring and forecasting. In particular, we encourage studies investigating the following:

- **Multi-source remote sensing data fusion and assimilation**
- **High-resolution atmospheric vertical sounding for fine-scale applications**
- **AI-driven atmospheric remote sensing**
- **Extreme weather monitoring**
- **Urban, regional, and low-altitude economy meteorological applications**

---

### Guest Editors

Prof. Dr. Xiefei Zhi

Prof. Dr. Donglian Sun

Prof. Dr. Yonghong Zhang

Dr. Yan-An Liu

Dr. Wen Huo

---

### Deadline for manuscript submissions

20 November 2025



## Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/si/237220](https://mdpi.com/si/237220)

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

[mdpi.com/journal/  
remotesensing](https://mdpi.com/journal/remotesensing)





# Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/journal/  
remotesensing](https://mdpi.com/journal/remotesensing)



## 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.

---

### 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

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

#### Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)