

## Special Issue

# Microwave Tomography: Advancements and Applications

### Message from the Guest Editors

Microwave tomography (MWT) is a broad research field, wherein the ability of microwaves to penetrate opaque dielectric materials is exploited to perform non-invasive surveys devoted to characterizing the surface and interior of an investigated scenario. Therefore, MWT covers challenges related to the design of sensors/exposures systems and the development of imaging strategies, that can account for complex scenarios and/or be optimized for a certain application. This Special Issue deals with methodological and technological advancements referred to both hardware and software issues, working with signals in the frequency range from some hundred to a few thousand Hertz, and regarding in situ, close, and remote sensing. Specifically, it tackles strategies and technical solutions based on the analysis of microwave–material interactions and their suitable models. Moreover, innovations, possibly exploiting artificial intelligence and designed both for assessed applicative fields, such as subsoil or structure surveys, and innovative ones, i.e., health monitoring, industrial quality control, security, and safety, are welcome.

### Guest Editors

Dr. Giovanni Ludeno

Dr. Livia Lantini

Dr. Ilaria Catapano

### Deadline for manuscript submissions

closed (28 February 2025)



## Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/si/119237](https://mdpi.com/si/119237)

*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)