

Special Issue

Monitoring of Volcanoes and Earthquakes with SAR and Satellite

Message from the Guest Editors

Volcanoes and earthquakes are among the most dynamic and dangerous natural phenomena on our planet, and they pose serious threats to human life, infrastructure, and the environment. Monitoring and understanding these phenomena are important for disaster preparedness and risk mitigation. Over the past few decades, satellite-based earth observation has revolutionised how we observe, analyse, and react to geophysical hazards, providing an unprecedented perspective of the Earth's surface from space. This Special Issue aims to gather state-of-the-art studies and innovative methods devoted to the use of active and passive satellite remote sensing for detecting, monitoring, and analysing seismic and volcanic activity. These techniques provide continuous and regional observations, providing essential information even in remote or inaccessible regions, regardless of weather conditions and daylight hours. We welcome submissions that describe new algorithms, data fusion techniques, AI-based solutions, and case studies demonstrating the operational use of satellite data in observing active volcanoes and seismically active regions.

Guest Editors

Dr. Alfredo Falconieri

Institute of Methodologies for Environmental Analysis, National Research Council (CNR-IMAA), c.da Santa Loja 85050, Tito Scalo, Potenza, Italy

Dr. Valeria Satriano

Institute of Methodologies for Environmental Analysis, National Research Council (CNR-IMAA), c.da Santa Loja 85050, Tito Scalo, Potenza, Italy

Deadline for manuscript submissions

30 November 2025



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/240923

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)