Special Issue

Application of Machine Learning in Volcano Monitoring

Message from the Guest Editors

Volcanic eruptions represent significant natural hazards to communities living at the edge of active volcanoes. Along with ground-based networks of seismometers, GNSS sensors, webcams, and gas sampling, volcano monitoring increasingly relies on satellite remote sensing methods to provide information on volcanic hazards. These large data sets can provide relevant hazard information throughout the entire hazard period, beginning with the detection of eruption precursors and ending with the estimation of a volcanic source model associated with an analyzed eruption. The use of machine learning is gaining importance in volcanology, not only for monitoring purposes (i.e., in real time) but also for later hazards analysis (e.g., modelling tools). This Special Issue welcomes papers that cross-fertilize efforts in traditional volcano monitoring with new technological innovations from satellite remote sensing and machine learning techniques for increasing the capability to forecast, detect and track hazardous volcanic activity worldwide.

Guest Editors

Dr. Claudia Corradino

Istituto Nazionale di Geofisica e Vulcanologia (INGV), Etna Volcano Observatory, 95125 Catania, Italy

Dr. Ciro Del Negro

Istituto Nazionale di Geofisica e Vulcanologia (INGV), Etna Volcano Observatory, 95125 Catania, Italy

Deadline for manuscript submissions

closed (31 December 2021)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/77948

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

mdpi.com/journal/remotesensing

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/journal/remotesensing

MDPI

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)