Special Issue

Assessment and Prediction of Volcano Hazard Using Remote Sensing

Message from the Guest Editors

The accurate forecasting and characterization of volcanic activity, and the assessment of their potential impact on land and population, is an open challenge given the inhomogeneity of monitoring networks around active volcanoes. For the last forty years, satellite- and ground-based remote sensing techniques have been extensively used to monitor volcanoes worldwide. All those measurements are fundamental to effectively track the evolution of volcanoes and enhance physics-based dynamic models that link those spatial and temporal observations with volcanic phenomena. In this context, ensemble-based data assimilation approaches have been successfully implemented to model time-varying ground deformation observations from InSAR, or to forecast volcanic ash and SO2 dispersal in the atmosphere. We invite papers dealing with the integration of satellite- and ground-based remote sensing observations into modelling with the aim to nowcast and possibly forecast volcanic hazards and their impact. Contributions on novel methodologies and applications are welcome.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2022)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/87623

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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

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