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 SO_2 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

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About the Journal

Message from the Editor-in-Chief

The new open access journal *Forecasting* provides an interdisciplinary forum for all aspects related to the immensely broad field of time series analysis and forecasting. The range of applications in forecasting is enormous, from energy forecasting or economic analysis of stock indices prediction, climate forecasting, chemical or natural process forecasting, etc. It is the aim of the journal to publish relevant topical contributions for the scientific community of forecasting in a timely manner. We would like to invite you to contribute to the journal by sending us your high quality research papers and would be pleased to welcome you as one of our authors.

Editor-in-Chief

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