



Quantitative Volcanic Hazard Assessment and Uncertainty Analysis in Satellite Remote Sensing and Modeling

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Message from the Guest Editors

Volcanic eruptions can be both effusive, through the outpouring of lava onto the ground, and explosive, through the dispersion of ash in the atmosphere. Each type of eruptive process can produce its associated hazards, from lava flows that can impact local populations to dispersing ash clouds that can lead to aviation impacts. To deal effectively with these crises, a strategy based on the integration of field data, satellite observations and physical models is emerging to monitor volcanic hazards in near real-time. This Special Issue covers original research and studies related to the above-mentioned topics, including but not limited to:

- (i) describing field and remote sensing data provisions and their sources of uncertainty;
- (ii) evaluating model robustness through validation against real case studies;
- (iii) model comparison between numerical simulations, analytical solutions and laboratory experiments;
- (iv) quantification of uncertainty propagation through both forward and inverse modelling in all components of volcanic hazard modelling.





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Message from the Editor-in-Chief

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