Special Issue

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

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.

Guest Editors

Dr. Ciro Del Negro

Prof. Michael S. Ramsey

Prof. Dr. Alexis Hérault

Dr. Gaetana Ganci

Deadline for manuscript submissions

closed (31 December 2020)

Remote Sensing

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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.

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