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Advanced Technology and Data Analysis of Monitoring Observations in Seismology

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Deadline for manuscript submissions:
closed (30 April 2024)

Message from the Guest Editor

Various physical properties of the planet interact in order to generate seismic phenomena. Hence, seismic monitoring observatories have become monitoring networks for geophysical variables that involve elastic, magnetic, electric, gravimetric, thermal fields, etc. The study of this broad type of signals implies the development of diverse detection and analysis strategies to understand the seismic source, the propagation environment, and possible space–time windows in which to consolidate early warning systems.

This Special Issue seeks to document new experiences in monitoring seismic and volcanic sources based on recent technological trends. Additionally, we hope to further analyze approaches using traditional or disruptive techniques in order to understand the physics of the sources and the development of early warning systems for making decisions within the framework of public disaster management policies.

Keywords:

- networks
- seismic signals
- instrumentation
- sensors
- early warning systems
- geophysical variables
- AI in seismology

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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