Special Issue

Advanced Research in Seismic Monitoring and Big Data Analytics

Message from the Guest Editor

In recent decades, multiple regions throughout the world have displayed differing types of active geological structures characterized by high seismic potential, making them particularly vulnerable to the impending possibility of catastrophic earthquake occurrences. Continuous, real-time monitoring of surface seismic activity around the world is of great interest for acquiring new insight into global tomography analyses and for the recognition of seismic patterns leading to potentially hazardous situations.

This Special Issue aims to highlight advances in the development of new techniques and analytical methods. These can be applied to signal detection, and processing, source characterization and seismic imaging to characterize seismic activity and emphasize tectonic evolution at various scales within different environments. We encourage methodological contributions as well as key applications, which demonstrate how these new technologies and/or methods help improve our understanding of the physical processes governing earthquakes, as well as the Earth's architecture.

Guest Editor

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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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