



The Contribution of Geology and Geomatics to Seismic Hazard and Earthquake Engineering

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Message from the Guest Editors

Dear Colleagues,

In recent decades, a prominent body of knowledge related to the geology of the earthquakes has provided new insights into seismic phenomena. The study of geology of present earthquakes allows a better understanding of the whole set of natural processes involved. The study of events from the past allows providing more comprehensive data within the temporal range (recurrence periods) of the seismic cycle and therefore completing the seismic catalogues and incorporating long-term data into seismic hazard assessment. The introduction of geological analysis of earthquakes, mainly based on the application of the Environmental Seismic Intensity Scale (ESI-07), also allows the parameterization of environmental earthquake effects and the emergence of multiple modeling procedures to assess intensity, hazard, risk, emergency scenarios, etc., most of them based on the application of GIS technologies.

The objective of this Special Issue on “The Contribution of Geology and Geomatics to Seismic Hazard and Earthquake Engineering” is to provide the latest advances, uses, and case studies related to the multiple applications of geological analysis of earthquakes.





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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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