

Special Issue

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

Message from the Guest Editors

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.

Guest Editors

Dr. Javier Elez

Geology Department, Science Faculty, University of Salamanca, Plaza de la Merced s/n, 37008 Salamanca, Spain

Prof. Dr. Jorge L. Giner-Robles

Geology and Geochemistry Department, Science Faculty, Universidad Autónoma de Madrid, 28049 Cantoblanco, Spain

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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