Special Issue

Comprehensive Research in Earthquake Forecasting and Seismic Hazard Assessment

Message from the Guest Editors

The development of earthquake forecasting models is being facilitated by the improvement of data and modeling inputs. Some modeling efforts are focused on short-term clustering of earthquakes, others on the time-varying probability of rupture of major fault sources, and others on the space–time–magnitude variation of the rate of earthquake occurrence in extended regions. Models can be statistical or physics based. Data input includes the past earthquake catalogue, known or inferred dates of previous fault ruptures, modeled physical variables such as stress accumulation and strain rates, and proposed precursory phenomena. Improved methods to test the performance of forecasting models are in development. Contributions regarding all aspects of models designed to forecast earthquake occurrence in time and/or space are encouraged, and reports on the application of forecasts to inform the public or in support of earthquake countermeasures planning are welcome; articles on modern approaches to seismic hazard assessment and mitigation are also desired.

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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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