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Models for Earthquakes Analysis

Guest Editor:

Prof. Marcello Chiodi
Department of Economics, Business and Statistics, University of Palermo, Palermo, Italy

Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

Space time processes are useful models to describe earthquake occurrences. Many of these models are Hawkes models, or epidemic type ones, such as ETAS (epidemic type aftershock sequences). In these models, long-term components are usually modeled with inhomogeneous Poisson components, while short-term components, related to aftershock sequences, are modeled with intensities decreasing in time, either with parametric or nonparametric space time components.

The possibility of short-term forecasting is related to this kind of components; furthermore, in recent decades, there has been the possibility of explaining some of these components by means of other observable variables, such as GPS positions, fault systems, seismic waveforms, and so on. Another interesting problem connected with the analysis of seismic waveforms is the problem of early warning.

Prof. Marcello Chiodi
Guest Editor

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Editor-in-Chief

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

Message from the Editor-in-Chief

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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