

## Special Issue

# Models for Earthquakes Analysis

### Message from the Guest Editor

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.

---

### Guest Editor

Prof. Marcello Chiodi

Department of Economics, Business and Statistics, University of Palermo, Palermo, Italy

---

### Deadline for manuscript submissions

closed (30 November 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/83176](https://mdpi.com/si/83176)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[applsci](https://doi.org/10.3390/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### 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.

---

### Editor-in-Chief

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

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )