

## Special Issue

# Big Data in Seismology: Methods and Applications

### Message from the Guest Editors

The term "Big Data" has grown in prominence over the last ten years. As a result, the field of big geospatial data has recently received considerable attention from various areas. We encourage articles, reviews, and technical reports that combine theory and experiments to process seismic data using parallel computing and deep learning. Appropriate articles will discuss the most recent advancements and cutting-edge research in the geospatial big data field, with a focus on the following issues:

- Data selection and acquisition;
- Seismotectonic and seismicity of the region;
- Artificial intelligence and geoscience-based design methodologies (machine learning and deep learning);
- Data science's role in the geosciences' conventional and new issues;
- Needs and perspectives for the use of data in geosciences;
- Simulating the essential mechanical conditions resulting in rupture dynamics using laboratory and numerical models.

---

### Guest Editors

Dr. Alexandra Moshou

Dr. Antonios Konstantaras

Dr. Michail Gianniou

---

### Deadline for manuscript submissions

closed (30 September 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/133989](https://mdpi.com/si/133989)

*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://mdpi.com/journal/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 )