

## Special Issue

# Application of Data Processing in Earthquake Science

### Message from the Guest Editor

Modern data processing techniques are reshaping various fields of Earthquake Science, including remote sensing, early warning and forecasting, and even data recovery and storage. Machine learning (ML) pipelines, hybrid models that combine crowdsourced smartphone triggers, satellite geodesy, acoustic sensing with well-established time-series analysis, and probabilistic decision-making have been reported to successfully address issues such as location and magnitude estimation, magnitude saturation, coseismic slip, and postseismic deformation. We are pleased to invite researchers, experts, and scholars to submit their work to this Special Issue of *Applied Sciences*. We welcome original research, case studies and review articles that highlight advances in data processing models and techniques for addressing seismology and earthquake-related hazards. This Special Issue aims to bring together cutting-edge research that will advance both theory and practice in this field, fostering interdisciplinary collaboration and providing actionable insights for earthquake monitoring and mitigation.

### Guest Editor

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### Deadline for manuscript submissions

20 April 2026



## Applied Sciences

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## 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.

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### Editor-in-Chief

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