Special Issue

New Technologies and Data Analysis Methods for Seismic Monitoring

Message from the Guest Editors

Since the last decade, seismology has been characterized by an exponential growth of data, mainly due to the increasing number of high-quality seismic networks being installed around the world. Modern microseismic networks based on new sensor technologies allow detecting a massive number of tiny earthquakes, generating an extremely large dataset for analysis. The analysis of such a huge amount of data highlights the limits of standard routines for seismic analysis. Exploiting these new massive datasets is a challenge that can be overcome only by using new-generation, automated, and noise-robust data analysis methods. Waveform-based detection and location methods have grown in popularity, and their application has dramatically improved seismic monitoring capability. Moreover, machine learning approaches to data-intensive seismic analysis are showing promising results, opening new horizons for the development of innovative, fully automated, and noise-robust methods. This Special Issue aims to highlight advances in the development of new monitoring technologies and data analysis methods. For more information, please click: mdpi.com/si/60071

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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