



an Open Access Journal by MDPI

Advanced Data Analysis and Imaging Technologies for Seismic Reservoir Monitoring

Guest Editors:

Dr. Fengjiao Zhang

College of Geo-Exploration Science and Technology, Jilin University, Changchun 130026, China

Prof. Dr. Zhuo Xu

College of Geo-Exploration Science and Technology, Jilin University, Changchun 130026, China

Deadline for manuscript submissions: **20 December 2024**

mdpi.com/si/208338

Message from the Guest Editors

Dear Colleagues,

Seismic reservoir monitoring plays a crucial role in modern geophysical exploration. It is not only vital for oil and gas exploration, development, and production management, it also significant for understanding and predicting geological disasters, for assessing the potential of renewable resources, and for environmental monitoring. Seismic exploration methods allow for the high-precision imaging of subsurface structures and offer quantitative interpretations of reservoir parameters, such as porosity, lithology, and rock-fluid properties through various inversion algorithms. The effective analysis of seismic data using advanced data analysis, inversion, and imaging techniques has become particularly important.

This Special Issue aims to collect the latest advancements and innovative methods in seismic data processing, imaging, and interpretation research, especially those technologies that can enhance the accuracy and efficiency of seismic reservoir monitoring.

Dr. Fengjiao Zhang Dr. Zhuo Xu *Guest Editors*







an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

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

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), Inspec,

CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/applsci applsci@mdpi.com X@Applsci