

# Special Issue

## Exploration Geophysics and Seismic Surveying

### Message from the Guest Editor

This Special Issue of *Applied Sciences*, entitled 'Exploration Geophysics and Seismic Surveying', addresses both theoretical innovations and practical applications. The scope of this Special Issue includes the acquisition, processing, and interpretation of seismic data; advancements in seismic wave inversion and imaging techniques (e.g., full waveform inversion, reverse time migration); and the integration of artificial intelligence (AI) and machine learning (ML) into geophysical data analysis. The Special Issue also highlights the development of technologies for marine and terrestrial exploration, challenges in subsurface imaging, and case studies demonstrating novel methodologies. We encourage the submission of contributions that discuss sustainable practices, improvements in the accuracy of resource detection, and computational efficiency in seismic modeling. This Special Issue aims to foster collaboration among geophysicists, engineers, and data scientists, providing a platform for the dissemination of cutting-edge research that bridges traditional geophysical methods with modern computational tools.

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### Guest Editor

Dr. Guoxin Chen

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### Deadline for manuscript submissions

30 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

Prof. Dr. Giulio Nicola Cerullo

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