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# **Theory and Applications of Seismic Inversion**

Guest Editors:

#### **Message from the Guest Editors**

Dr. Mehrdad Soleimani Monfared

Dr. Behshad Jodeiri Shokri

Dr. Amin Roshandel Kahoo

Deadline for manuscript submissions: closed (31 December 2022) Dear Colleagues,

Seismic inversion consists of a wide range of methods, techniques and algorithms, each dealing with a specific part in the whole range of seismic data analysis and interpretation. Seismic inversion is not only the heart of the seismology and seismic exploration, but is always at the leading edge of investigation and research. Advanced methods in waveform inversion algorithms are still rapidly developing towards resolving the problem of seismic imaging in complex geological structures, resolving the obstacles of obtaining high seismic images from deep earth and using the contribution of all information imbedded in recorded data by inversion of the full waveform in full-waveform inversion methods. In velocity analysis, the inversion methods largely consist of investigations seismic inversion. Traveltime on tomography, gridded or layer-based and hybrid inversion techniques are among the seismic inversion methods that are developing rapidly and finding vast application in the chain of seismic data processing and interpretation.



**Special**sue





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## **Editor-in-Chief**

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#### Message from the Editor-in-Chief

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