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# Symmetry/Asymmetry in Geophysical Prospecting

Guest Editor:

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Deadline for manuscript submissions:
**closed (15 July 2024)**

## Message from the Guest Editor

Dear Colleagues,

This Special Issue, entitled "Symmetry/Asymmetry in Geophysical Prospecting", aims to explore the role of symmetry and asymmetry in various aspects of geophysical exploration. It invites manuscripts that investigate the significance, applications, and implications of symmetry and asymmetry in geophysical data acquisition, processing, interpretation, and analysis. The scope of this Special Issue includes, but is not limited to, the following topics:

- Symmetry and asymmetry in geophysical survey design and optimization;
- Symmetry and asymmetry in data acquisition techniques such as seismic, electromagnetic, gravity, and magnetic surveys;
- Symmetric and asymmetric data-processing algorithms and methodologies;
- Symmetry and asymmetry in feature extraction and pattern recognition from geophysical data;
- Symmetry and asymmetry in imaging and inversion techniques;
- Symmetry and asymmetry in multi-physics and multi-scale geophysical integration;
- Symmetry and asymmetry in the interpretation and modeling of subsurface structures and properties;
- Symmetric and asymmetric approaches for characterizing geological formations, reservoirs, and resources;

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## Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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