

Special Issue

Physically Data-Driven Research on Symmetry/Asymmetry in Underground Engineering Construction and Maintenance

Message from the Guest Editors

Researchers and practitioners from various disciplines are encouraged to contribute their latest findings, innovative methods, and case studies to shed light on this important topic. The Special Issue seeks to foster collaboration and knowledge exchange, with the ultimate goal of advancing the state of the art in tunnel and underground engineering. Potential topics of interest include, but are not limited to, the following:

- Fundamental principles of symmetry and asymmetry in underground engineering;
- Physical modeling techniques for assessing symmetry and asymmetry;
- Data-driven analysis of tunnel behavior;
- Advancements in physical modeling;
- Structural integrity and safety;
- Optimization of tunnel design and maintenance;
- Case studies in symmetrical and asymmetrical tunnel design;
- Risk assessment and mitigation;
- Sustainable and resilient tunnel design;
- Future perspectives in tunnel engineering.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2024)



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About the Journal

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.

Editor-in-Chief

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