

Special Issue

Asymmetry and Symmetry in Infrastructure

Message from the Guest Editor

Dear colleagues, Symmetry and asymmetry serve as fundamental organizing principles that profoundly influence the design, construction, performance, and resilience of civil engineering projects. As the foundation of sustainable infrastructure development, civil engineering must continually address society's evolving needs through innovative infrastructure solutions including tunnels, bridges, foundations, and various geotechnical applications. In these diverse domains, the careful consideration of both symmetrical configurations and controlled asymmetries plays a pivotal role in determining structural stability, efficiency, and long-term durability. This Special Issue aims to explore the interplay of symmetry and asymmetry across civil engineering subdisciplines. We welcome contributions spanning key subdisciplines such as tunnel engineering, bridge engineering, geotechnical engineering, and the mechanics of various structures. We look forward to your impactful contributions.

Guest Editor

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Deadline for manuscript submissions

31 May 2026



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



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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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