



*symmetry*

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## Symmetry/Asymmetry in Ocean Engineering

Guest Editors:

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**Dr. Liangliang Lu**

Deadline for manuscript  
submissions:

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### Message from the Guest Editors

Dear Colleagues,

This Special Issue explores the intricate relationship between symmetry and asymmetry in the field of ocean engineering. Ocean engineering involves designing and implementing various structures and systems to operate in the marine environment, addressing challenges related to hydrodynamics, wave loads, and structural integrity.

Symmetry and asymmetry play crucial roles in the performance and behavior of ocean engineering systems. With this Special Issue, we aim to bring together a collection of research articles that delve into different aspects of symmetry and asymmetry, providing valuable insights and advancements in the field. We aim to cover a wide range of topics, including the analysis of symmetric and asymmetric wave interactions, the design and optimization of symmetric and asymmetric hull forms, the study of propulsion systems with symmetrical or asymmetrical configurations, and the examination of hydrodynamic forces on symmetric and asymmetric offshore structures.

By focusing on symmetry and asymmetry, this Special Issue aims to enhance the understanding of their effects on ocean engineering systems, ...



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# Special Issue



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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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