

Special Issue

Symmetry in Marine Hydrodynamics: Applications to Ocean Engineering

Message from the Guest Editors

We are inviting submissions to this Special Issue entitled 'Symmetry in Marine Hydrodynamics: Applications to Ocean Engineering'. This Special Issue explores the complex symmetry hydrodynamics of ocean engineering problems. Ocean engineering encompasses the development, design, and implementation of various structures utilized in marine environments. It also includes the analysis of challenges associated with hydrodynamics, wave forces, stability, and structural resilience. The application of symmetry in marine hydrodynamics holds significant importance in the functionality and performance of ocean engineering problems. With this Special Issue, our goal is to compile a collection of research papers, review articles, and short communications that explore various facets of symmetry in marine hydrodynamics, offering valuable insights and progress in analytical modeling, numerical simulation, and prototype testing. Contributions that analyze symmetry wave structure interactions under nonlinear effect applications in marine structures are particularly welcome.

Guest Editors

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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.

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