Special Issue

Symmetry in Fluid Mechanics

Message from the Guest Editor

Fluid mechanics is a branch of physics that examines different types of fluid flows, including incompressible, compressible, Newtonian, non-Newtonian, multiphase, chemically reactive, high-enthalpy, combustion, detonation, magnetohydrodynamics, and convective flows, among others. The presence or absence of symmetry significantly influences many fluid processes. Symmetry can manifest at both the time and space levels. The investigation of symmetry in fluid mechanics often involves interdisciplinary applications across various fields, including aerospace, mechanical, chemical, industrial engineering, etc. This Special Issue aims to present contributions on recent developments related to symmetry and asymmetry in fluid mechanics across all scientific and engineering disciplines.

Guest Editor

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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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