Special Issue

Advances in Fluid Dynamics and Energy Systems: Applications of Symmetry and Asymmetry

Message from the Guest Editors

Fluid dynamics, thermal sciences, and energy systems are key areas of research that continuously push the boundaries of science and engineering. Advances in computational techniques, particularly computational fluid dynamics (CFD), have provided researchers with powerful tools to analyze, simulate, and optimize complex systems across various applications, including fluid mechanics, heat transfer, and renewable energy. This Special Issue, “Advances in Fluid Dynamics and Energy Systems: Applications of Symmetry and Asymmetry”, aims to gather cutting-edge studies that leverage numerical modeling, simulation, and experimental techniques to deepen our understanding of these fields. While symmetry and asymmetry can serve as valuable analytical perspectives—such as in geometric configurations, boundary conditions, or flow patterns—this issue welcomes research from a broad spectrum of topics and methodologies. Topics of interest include, but are not limited to, the application of CFD in fluid mechanics, heat transfer, thermodynamics, and renewable energy systems....

Guest Editors

Dr. Oscar Alejandro López-Núñez

Dr. José de Jesús Ramírez-Minguela

Dr. Jesus Alberto Crespo-Quintanilla

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Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

mdpi.com/journal/symmetry

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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

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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