



Mathematical Fluid Dynamics and Symmetry

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Deadline for manuscript submissions:

closed (1 December 2022)

Message from the Guest Editors

Dear Colleagues,

This Special Issue will accept high-quality peer-reviewed papers on the mathematical theory of nonlinear fluid dynamics and heat transfer, with special regard to existence and uniqueness theorems, stability questions, regularity criteria, symmetry principles, periodic solutions, long-term behavior, and attractors, as well as optimal flow control. Moreover, we invite submissions of original works that deal with mathematical modeling and studying novel analytical solutions to Newtonian and non-Newtonian fluid flows by using symmetry and conservation laws.





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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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