

Special Issue

Symmetry in Numerical Analysis and Computational Fluid Dynamics

Message from the Guest Editors

Fluid flow, in various geometries, plays an important role in industry as well in our daily life. In the case of cylindrical configuration, there are many applications of capillaries, such as water jets, film boiling, film-wise condensate, etc. The decay of any liquid cylindrical jet into different droplets is a complex and universal process that is useful both in nature and industry. The root cause of jet decay is the instability generated on the surface of the jet. When a liquid jet enters the atmosphere, the interface between the atmospheric air and the jet becomes unstable, resulting in liquid jet decay. The exact solution of the Navier–Stokes equation is not currently known, and therefore, general numerical- and symmetry-based numerical methods are very helpful for the computation of various properties of fluid flows required for industry. We invite contributions from authors on these topics.

Dr. Rishi Asthana

Guest Editors

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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.

Editor-in-Chief

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