Special Issue

Integral/Differential Equations and Symmetry

Message from the Guest Editors

This Special Issue explores the significant and fruitful intersection of symmetry analysis with the theory of integral and differential equations. Symmetry, in its various forms—from Lie point symmetries and nonlocal symmetries to more abstract algebraic and geometric structures—provides a powerful and unifying framework for tackling nonlinear problems. The collected works demonstrate how symmetry methods are not merely a tool for solving equations but are fundamental to understanding their intrinsic properties. Contributions highlight advancements in areas such as symmetry-based exact solutions, invariant discretization techniques, group classification, and the discovery of conservation laws. Furthermore, the issue showcases applications across diverse scientific fields, including mathematical physics, fluid dynamics, and biology, underscoring the universal utility of these approaches. By bridging theoretical developments with practical applications, this issue aims to inspire further research and highlight symmetry as an indispensable principle in the modern analysis of complex dynamical systems.

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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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