

Special Issue

Symmetries and Fractional Differential Equations: Theory and Applications

Message from the Guest Editors

Fractional differential equations have emerged as a powerful tool for modeling complex systems across various fields, including engineering, physics, biology, and finance. These equations extend classical differential equations by introducing non-integer derivatives, enabling the capture of memory and hereditary properties within dynamic systems. Symmetry relations in fractional differential equations are particularly important, as they help simplify complex models, reveal conservation laws, and provide insights into the stability and behavior of these systems. The aim of this Special Issue, "Symmetries and Fractional Differential Equations: Theory and Applications", is to explore the interplay between symmetry and fractional calculus and to advance both theoretical and practical applications of these equations.

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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