Special Issue

Symmetry Applied in Fractional Dynamics, Fractional Calculus and Inequalities

Message from the Guest Editors

During the last three decades, symmetry in fractional calculus/discrete fractional calculus, dynamics and inequalities has been studied extensively. As a matter of fact, fractional derivatives and integrals provide a much better tool for the description of the memory and hereditary properties of various materials and processes than integer derivatives. Engineers and scientists have developed new precise models that involve fractional differential equations and inequalities. These models have been applied successfully, e.g., in physics, biomathematics, blood flow phenomena, ecology, environmental issues, viscoelasticity, aerodynamics, electrodynamics of complex media, electrical circuits, electroanalytical chemistry and control theory. The main purpose of this Special Issue is to establish a collection of articles that reflect the latest mathematical developments in the field of symmetry applied in fractional calculus–dynamics and inequalities with their applications.

Guest Editors

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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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