Special Issue

Symmetries and Fuzzy Differential Equations

Message from the Guest Editors

Researchers have long been aware of the solutions and applications of differential equations due to the significant role that these equations play in physics, image processing, mechanics, viscoelasticity, hydrology, electromagnetics, fluid mechanics, and many other fields. In recent times, researchers have grown more eager to work on differential equations, including fractional order, concurrently with the development of mathematical methods and computer software. As a result, a variety of techniques are now employed to solve differential equations, such as different numerical methods. Differential equations are employed widely in gravity research. The approximation symmetry technique is critical in determining the exact solutions of differential equations. Some of the most powerful Lie group approaches, such as symmetries, symmetry groups, and symmetry reductions, have also been taken into consideration to solve differential equations.

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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.

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