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Symmetries in Differential Equations and Application - Volume II

Guest Editor:

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Message from the Guest Editor

The study of differential equations is a wide field in pure and applied mathematics. All of these fields relate to the properties of various types of differential equations.

Pure mathematics investigates the existence and uniqueness of solutions, while applied mathematics enforces a strict justification of how to approximate solutions.

Differential equations play a significant role in modeling virtually every physical, technical and biological process. These areas remain at the center of advanced mathematical research. Differential equations, such as those employed in order to solve real problems, are not necessarily directly solvable. Instead, solutions can be approximated using numerical methods. These methods are pivotal to studies in advanced mathematics, physics, and engineering, with many potential applications. Recently, differential equations have been closely related to several areas in mathematics, applied mathematics, physics, chemistry, biological sciences, and engineering, and have been employed to share recent knowledge and research in pure, as well as applied, mathematical sciences.

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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.

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