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Numerical Methods for Differential Problems and Symmetry

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Message from the Guest Editors

Dear Colleagues,

Needless to say, many problems in several fields, such as medicine, biology, economics, finance, or engineering, can be described in terms of differential/integral equations or integrodifferential equations, which usually cannot be solved using known analytical methods. For this reason, numerical methods play a tremendous role in treating such problems.

Error analysis of numerical algorithms can judge the method's accuracy in the absence of exact solutions, which greatly helps in different fields of study in pure and applied mathematics.

This Special Issue intends to compile the recent advances in this area. Topics of interest include, but are not limited to: numerical methods for solving ordinary differential equations, partial differential equations, fractional differential equations, integral equations, and integrodifferential equations. In addition, their real-world applications are also especially welcome.

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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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