Special Issue

Symmetries in Differential Equation and Application

Message from the Guest Editor

The study of differential equations is a broad field in pure and applied mathematics. All of these fields relate to the properties of different 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. These areas are still at the center of advanced mathematical research. Differential equations, such as those used to solve real problems, are not necessarily directly solvable. Instead, solutions can be approximated using numerical methods. These methods are central 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, etc and have been used to share the recent knowledge and research in pure as well as applied mathematical sciences. This Special Issue aims to publish major research papers and latest trends in pure and applied mathematical sciences including the area of differential equations.

Guest Editor

Prof. Dr. Cheon-Seoung Ryoo

Department of Mathematics, Hannam University, Daejeon 34430, Republic of Korea

Deadline for manuscript submissions

closed (31 July 2023)

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

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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