Special Issue

Special Functions, Integral Transforms and Polynomial Sequences in Real World with Symmetry

Message from the Guest Editors

The application of special function theory continues to grow in contributions in all areas of the sciences, with particular reference to those of mathematical physics, chemistry, and the biological sciences. By means of special functions, it is often possible to find explicit solutions of certain ordinary or partial differential equations for particular boundary conditions and sometimes to derive even the best possible numerical approximations. This is borne out of the extensive literature, which has found its way into prestigious dedicated international journals, such as *Integral Transforms and Special Functions*, *Applied Analysis and Discrete Mathematics*, and those that refer to fractional calculus, such as *Fractional Calculus and Applied Analysis* and the *International Journal of Applied Mathematics*, among others. ......

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2025)

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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