



an Open Access Journal by MDPI

Advanced Computational Methods for Fractional Calculus

Guest Editors:	Message from the Guest Editors
Prof. Dr. Carlo Cattani	Dear Colleagues,
Dr. Praveen Agarwal Prof. Dr. Shilpi Jain	Fractional calculus governs many phenomena that occur in nature and plays an important role in the progress of engineering and technology. Fractional differential equations describe various phenomena such as fluid flow in a porous material, anomalous diffusion transport, signal
Deadline for manuscript submissions: closed (30 October 2022)	processing, control theory of dynamical systems, viscoelasticity, etc. In the last few years, various numerical and computational methods and simulations have been developed and
	especially designed to handle symmetrical fractal and fractional problems, where the nonlocal properties and recursive algorithms play a fundamental role. In particular, Artificial Neural Network (ANN) methods have also been established as an additional powerful technique to solve a variety of real-world issues described by non-integer dimensional order operators



mdpi.com/si/100235







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

 Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain
Institute of Space Sciences (ICE-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (*General Mathematics*); Q1 (*Physics and Astronomy*); Q1 (*Computer Science*)

Contact Us

Symmetry Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/symmetry symmetry@mdpi.com X@Symmetry_MDPI