Special Issue

Fractional Mathematical Modelling: Theory, Methods and Applications

Message from the Guest Editors

The tools of fractional calculus serve as a new resource that is applicable in fields, including physics, fluid mechanics, hydrology, material science, signal processing, engineering, chemistry, biology, medicine, finance, and social sciences. This Special Issue aims to highlight the recent advancements in fractional calculus theory, innovative methodologies, and potential applications. We specifically invite authors to submit high-quality research that delves into the analysis of fractional differential/integral equations, the exploration of new definitions for fractional derivatives, the development of numerical methods to solve fractional equations, and the examination of applications in physical systems governed by fractional differential equations. The scope extends to include various other captivating research topics as well.

Guest Editors

Dr. Faranak Rabiei

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Deadline for manuscript submissions

closed (15 May 2025)

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About the Journal

Message from the Editor-in-Chief

Fractal and Fractional (*Fractal Fract.*) is a scholarly online journal which provides a forum for discussion on new original models and methods in fractals and fractional calculus both from theory and applications. It is a peer-reviewed, open access journal that publishes high quality original research articles, review papers and short communications.

Editor-in-Chief

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