

Special Issue

Analysis of Caputo-Type Fractional Derivatives and Differential Equations

Message from the Guest Editors

This Special Issue is devoted to the analysis of Caputo-type fractional derivatives and differential equations. Caputo-type fractional derivatives and differential equations are a class of important topics, which are used to characterize certain evolution processes in viscoelasticity control and physics. For this SI, we are inviting the submission of papers concerning the theory of differential equations with both ordinary, delay, quaternion-valued, and impulsive, as well as their theoretical and practical applications.

- fractional Hermite–Hadamard inequalities
- existence and uniqueness
- exponential stability
- finite time stability
- Ulam’s type stability
- asymptotically periodic solutions
- averaging principle
- controllability
- iterative learning controls
- fractional order
- delay
- impulsive
- multi-agent systems
- quaternion-valued
- evolution equations

Guest Editors

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Deadline for manuscript submissions

closed (15 July 2023)



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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.

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CiteScore - Q1 (Analysis)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).