

## Special Issue

# Stability Analysis for Fractional-Order Equations

### Message from the Guest Editors

Fractional differential equations (FDEs) have become one of the most attractive research areas for finding new results. The reason is that FDEs can be used to precisely describe a large number of nonlinear phenomena in different branches of science and engineering, for example, of viscoelasticity, control hypothesis, speculation, fluid dynamics, hydrodynamics, and aerodynamics in information processing, system networking, and picture processing. In the study of DEs, stability analysis is a basic requirement for the applicability of results. This is especially the case in stability theory. However, we note that with respect to stability analysis in FDEs, there still are many problems that need to be studied. In this Special Issue “Stability Analysis for Fractional-Order Equations”, we aim to create new theories and applications for stability analysis in FDEs. We welcome original research articles. Keywords (include but are not limited to the following):

- Fractional differential equations;
- Existence of solutions for FDEs;
- Exact and numerical solutions for FDEs;
- Stability analysis for FDEs.

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### Guest Editors

Prof. Dr. Jiafa Xu

Dr. Akbar Zada

Dr. Yaohong Li

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### Deadline for manuscript submissions

closed (31 July 2023)



## Fractal and Fractional

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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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### Editor-in-Chief

Prof. Dr. Carlo Cattani  
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JCR - Q1 (Mathematics, Interdisciplinary Applications) /  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).