Special Issue

Fractional Derivatives and Their Applications

Message from the Guest Editors

The purpose of this Special Issue is to present a collection of articles showing novel developments and results based on the framework of fractional calculus. This Special Issue especially welcomes extended papers presented at the conference "The 2021 Symposium on Fractional Derivatives and Their Applications (FDTA2021)". We are cordially inviting you to join us at the conference and also to submit your manuscript to this Special Issue. Topics to be covered in this Special Issue include but are not limited to the following:

- Mathematical modeling of fractional and/or stochastic fractional dynamic systems in the real world, stability analysis, and numerical techniques for these equations;
- Fractional controller design and system identification;
- Fractional order models and their experimental verifications, and applications of fractional models to engineering systems in general and mechatronic embedded systems in particular;
- Fractional calculus-based models for cyberphysical systems (CPS) and cyber-human systems (CHS) and, in general, intelligent adaptive systems (IAS);

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2021)



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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 peerreviewed, open access journal that publishes high quality original research articles, review papers and short communications.

Editor-in-Chief

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Author Benefits

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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).