Special Issue

Metric Spaces with Its Application to Fractional Differential Equations

Message from the Guest Editors

Metric space and fixed point theorems in metric spaces are powerful tools in applied mathematics. Metric space has been proven to be a very interesting topic for researchers who work in fixed point theory. The existence of a solution of differential and integral fractional equations has been proved using the metric space and the fixed point techniques. This Special Issue invites and welcomes review, expository, and original research papers addressing state-of-the-art developments in pure and applied mathematics via fractals and fractional calculus, along with their wide-ranging applications in the physical, natural, computational, environmental, engineering, and statistical sciences, all mixed with fixed points techniques. This Special Issue is dedicated, but not limited, to the following topics of interest: Metric spaces;
Fixed points theorems;
Well-posedness;
Stability;
Fractional differential equations with different kernels;
Fractal patterns;
Statistical convergence;
Decision-making problems;
Numerical and computational methods;
Mathematical physics;
Mathematics in biology;
Intuitionistic fuzzy relations.

Guest Editors

Prof. Dr. Khurram Shabbir

Dr. Monica-Felicia Bota

Dr. Liliana Guran

Deadline for manuscript submissions

closed (14 February 2025)

Fractal and Fractional

mdpi.com/journal/fractalfract

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

Prof. Dr. Carlo Cattani
Engineering School (DEIM), University of Tuscia, Largo dell'Università, 01100 Viterbo, Italy

Author Benefits

High Visibility:
indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank:
JCR - Q1 (Mathematics, Interdisciplinary Applications) / 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).