

Special Issue

Applications of Fractional-Order Calculus in Robotics

Message from the Guest Editors

In the last few decades, fractional calculus has frequently been chosen by researchers as an alternative method for modeling and controlling dynamical systems. The fractional-order approach could provide a more precise analysis of a robotic system than its integer counterpart. This Special Issue is devoted to advancements in the modeling and control of robotic systems utilizing fractional calculus. This issue aims to introduce new concepts in the field of fractional-order modeling and control and provide a platform for researchers to report these concepts. This Special Issue welcomes contributions from fellow researchers, academics, industry experts, and engineering students working on a similar topic.

Guest Editors

Dr. Abhaya Pal Singh

Department of Mechanical Engineering and Technology Management,
Faculty of Science and Technology, Norwegian University of Life
Sciences (NMBU), 1430 Ås, Norway

Dr. Kishore Bingi

Department of Electrical and Electronic Engineering, Universiti
Teknologi PETRONAS, Seri Iskandar 32610, Malaysia

Deadline for manuscript submissions

closed (15 June 2024)



Fractal and Fractional

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.0



mdpi.com/si/125647

Fractal and Fractional
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fractalfract@mdpi.com

[mdpi.com/journal/
fractalfract](https://mdpi.com/journal/fractalfract)





Fractal and Fractional

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.0



[mdpi.com/journal/
fractalfract](https://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 19.3 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).