

Special Issue

Current Perspectives in Fractional Calculus: Theory, Methods, and Applications

Message from the Guest Editor

This Special Issue aims to provide a platform for sharing the latest advancements in the theory, methods, and applications of fractional calculus, encompassing a wide range of topics including theoretical research, analytical developments, numerical and computational methods, as well as practical applications across diverse fields. Including but not limited to:

- fractional view analysis in life sciences
- applications of fractional calculus to biological systems
- recent developments of fractional theory
- fractional differential equations
- chaos and bifurcation in fractional systems
- analytic approaches in fractional calculus
- computational analysis of natural systems
- biomedical applications of fractional calculus
- fractional molecular cellular dynamics
- numerical methods for fractional systems

Guest Editor

Dr. José Villa-Morales

Department of Mathematics and Physics, Autonomous University of Aguascalientes, Aguascalientes 20100, Mexico

Deadline for manuscript submissions

closed (30 June 2025)



Axioms

an Open Access Journal
by MDPI

Impact Factor 1.6



mdpi.com/si/204922

Axioms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
axioms@mdpi.com

mdpi.com/journal/

axioms





Axioms

an Open Access Journal
by MDPI

Impact Factor 1.6



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



About the Journal

Message from the Editor-in-Chief

Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Humberto Bustince

Department of Statistics, Computer Science and Mathematics, Public
University of Navarra, 31006 Pamplona, Spain

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High visibility:

indexed within SCIE (Web of Science), dblp, and other databases.

Journal Rank:

JCR - Q2 (Mathematics, Applied)