

## Special Issue

# New Theory and Applications of Nonlinear Analysis, Fractional Calculus and Optimization, 2nd Edition

### Message from the Guest Editor

This Special Issue will pay more attention to the new originality and real-world applications of nonlinear analysis, fractional calculus, optimization, and their applications. We cordially and earnestly invite researchers to contribute original and high-quality research papers, which will inspire advances in nonlinear analysis, fractional calculus, optimization, and their applications. Potential topics include, but are not limited to, the following:

- Nonlinear functional analysis;
- Fixed point, coincidence point, and best proximity point theory;
- Set-valued analysis;
- Critical point theory;
- Matrix theory;
- Convex analysis;
- Boundary value problems;
- Singular and impulsive fractional differential and integral equations;
- Well-posedness of fractional systems;
- Fractional epidemic model;
- Modeling biological phenomena;
- Non-smooth analysis and optimization;
- Stability analysis;
- Dynamics and chaos;
- Machine learning;
- Artificial neural networks.

---

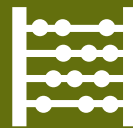
### Guest Editor

Prof. Dr. Wei-Shih Du  
Department of Mathematics, National Kaohsiung Normal University,  
Kaohsiung 82444, Taiwan

---

### Deadline for manuscript submissions

closed (31 March 2026)



## Axioms

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.6



[mdpi.com/si/209075](https://mdpi.com/si/209075)

*Axioms*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[axioms@mdpi.com](mailto:axioms@mdpi.com)

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