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

31 March 2026

Axioms

an Open Access Journal by MDPI

Impact Factor 1.6

mdpi.com/si/209075

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

MDPI

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)