

Special Issue

Interval and Fuzzy-Valued Functions: Generalized Differentiability and Applications

Message from the Guest Editors

A partial list of topics:

- Interval and fuzzy-valued functions of a single and multiple variables;
- Generalized derivative and differentiability of fuzzy-valued functions;
- Comparison of different definitions and forms of generalized differentiability;
- Properties of interval-valued, set-valued and fuzzy-valued functions;
- Calculus and algebra for interval and fuzzy generalized derivative;
- Characterization of generalized differentiable functions;
- Generalized fuzzy differentiability on time scales and applications;
- Fractional differentiability of interval and fuzzy-valued functions and applications;
- Partial derivatives of interval and fuzzy-valued functions of multiple variables;
- Fuzzy differential equations: theory, numerical solution, algorithms, applications;
- Optimization with nonlinear fuzzy-valued objective functions;
- Global optimization with fuzzy-valued objective;
- Vector-valued optimization with interval and fuzzy objectives;
- Linear interval and fuzzy optimization: theory, algorithms, applications;

Guest Editors

Prof. Dr. Manuel Arana-Jimenez

Dr. Maria Letizia Guerra

Prof. Laerte Sorini

Prof. Dr. Luciano Stefanini

Deadline for manuscript submissions

closed (1 May 2022)



Axioms

an Open Access Journal
by MDPI

Impact Factor 1.9



mdpi.com/si/63167

Axioms

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

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





Axioms

an Open Access Journal
by MDPI

Impact Factor 1.9



[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 - Q1 (Mathematics, Applied)