

## Special Issue

# Numerical Computation, Approximation of Functions and Applied Mathematics, 3rd Edition

### Message from the Guest Editor

A basic and important problem in numerical computation is the need to resolve complicated functions into simpler, easier-to-compute functions. Good numerical methods based on the theory of the approximation of functions have many applications in numerous branches of applied mathematics, such as computer-aided geometric design, machine learning, and signal processing. The primary purpose of this Special Issue is to highlight the recent progress made in the theory and application of function approximation. Topics may include, but are not limited to, the following: multivariate approximation, numerical integration, optimization, machine learning, signal processing, and computer-aided geometric design.

---

### Guest Editor

Prof. Dr. Peixin Ye

School of Mathematical Sciences and LPMC, Nankai University, Tianjin 300071, China

---

### Deadline for manuscript submissions

31 December 2026



## Axioms

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.6



[mdpi.com/si/247488](https://mdpi.com/si/247488)

*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/](https://mdpi.com/journal/)

[axioms](https://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)