



## Approximation Theory and Related Applications

Guest Editor:

**Prof. Dr. Yuriy Kharkevych**

Department of Theory of  
Functions and Methods of  
Teaching Mathematics, Lesya  
Ukrainka Volyn National  
University, 13 Voly Ave., 43025  
Lutsk, Ukraine

Deadline for manuscript  
submissions:

**closed (31 July 2022)**

### Message from the Guest Editor

Dear Colleagues,

In recent years, we have observed increasing interest in various aspects of approximation theory. This has arisen from the increase in the complexity of mathematical models that require computer calculations and the development of approximation theory theoretical bases.

In this Special Issue, we will cover the field of approximations in special function classes, fractional approximations, approximation operators, approximations of functions of infinitely many variables, numerical analysis, harmonic analysis, and applications of approximation theory. Our goal is to gather articles reflecting new trends approximation theory and related topics.

Prof. Dr. Yuriy Kharkevych  
*Guest Editor*





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Humberto Bustince**

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

## 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.

## 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)

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 21 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2024).

## Contact Us

---

*Axioms* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/axioms](https://mdpi.com/journal/axioms)  
[axioms@mdpi.com](mailto:axioms@mdpi.com)  
[X@Axioms\\_MDPI](https://twitter.com/Axioms_MDPI)