Special Issue

Recent Advances in Function Spaces and Their Applications

Message from the Guest Editors

This Special Issue aims to promote modern approaches to the theory of function spaces and applications. The theory of function spaces is a constantly growing field of mathematics that provides an important background for research in different areas of engineering, signal analysis, quantum mechanics, etc. It is often useful to impose integrability, differentiability or decay/growth at infinity conditions on the function and to observe how such properties reflect from the practical point of view. In addition, the tools from operator and representation theory can provide a rich framework for research and enforce notable scientific results. Researchers are encouraged to submit their papers as original results or expository or review papers. Topics of interest include function spaces, spaces of ultradifferentiable functions, spaces of distributions and ultradistributions, pseudodifferential operators, frame theory, time–frequency analysis, microlocal analysis. Contributions must be submitted before the deadline. Submissions will be peer-reviewed and selected for publication based on their quality and relevance.

Guest Editors

Dr. Filip Tomić

Department of Fundamental Sciences, Faculty of Technical Sciences, University of Novi Sad, 21000 Novi Sad, Serbia

Dr. Suzana Aleksić

Faculty of Science, Department of Mathematics and Informatics, University of Kragujevac, 34000 Kragujevac, Serbia

Deadline for manuscript submissions

closed (31 March 2026)

Axioms

an Open Access Journal by MDPI

Impact Factor 1.6

mdpi.com/si/204255

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)