Special Issue

Time-Frequency Analysis, Distributions, and Operators

Message from the Guest Editors

This Special Issue aims to promote the potential arising from connections between time–frequency analysis, operators, and distributions. Theory of test function spaces and their dual spaces of distributions offers a solid theoretical background for the wide range of research topics related to diverse applications. In particular, it is useful when decay or growth conditions are considered in combination with regularity properties of the considered objects. In the last two decades, tools from time–frequency analysis have offered a new perspective on these classical issues. Apart from new insights into classical theory, the new methodology has found applications ranging from physics and engineering to harmonic analysis and partial differential equations in mathematical sciences. Relevant topics include but are not limited to:

- Test function spaces and spaces of distributions
- Function spaces of harmonic analysis
- Time–frequency analysis
- Gabor and wavelet analysis
- Frames
- Pseudo-differential and fourier integral operators
- Microlocal analysis and wave-front sets

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Deadline for manuscript submissions

closed (22 November 2022)

Axioms

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Impact Factor 1.6

mdpi.com/si/74980

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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.

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