

# Special Issue

## Functional Analysis, Topology and Quantum Mechanics, 3rd Edition

### Message from the Guest Editors

The scope of this Special Issue deals with the strong interaction between the operator theory and the geometry of Banach spaces and topological vector spaces. Applications of the two aforementioned theories to quantum systems are very welcome.

Moreover, this Special Issue deals with partial differential equations and algebraic structures that govern physical phenomena, especially, quantum mechanics phenomena.

- banach spaces and algebras
- Hilbert spaces
- Selfadjoint operator
- convexity and smoothness
- algebras of continuous functions
- measure spaces
- non-associative algebras
- Lie algebras
- effect algebras
- series and summability
- poisson algebras
- partial differential equations
- quantum systems
- probability density operator
- unbounded observables

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### Guest Editors

Prof. Dr. Francisco Javier Garcia-Pacheco

Prof. Dr. Rafael de la Rosa Silva

Prof. Dr. José María Sánchez Delgado

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### Deadline for manuscript submissions

31 July 2025



## Mathematics

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## About the Journal

### Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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### Editor-in-Chief

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.3 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).