

Special Issue

Research in Quantum Information Theory

Message from the Guest Editors

Quantum information theory is a cutting-edge interdisciplinary field that deeply integrates information theory with quantum mechanics. Built upon core concepts such as qubits, quantum entanglement, and quantum measurement, it redefines the fundamental limits of information encoding, transmission, processing, and security. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Quantum entanglement and correlations: measures, dynamics, and applications;
- Quantum algorithms, complexity, and computational models;
- Quantum error correction, fault-tolerant quantum computing, and noise models;
- Quantum communication: protocols, channel capacity, and network design;
- Quantum cryptography and quantum key distribution;
- Quantum information in many-body and open quantum systems;
- Machine learning and optimization in quantum information processing;
- Quantum walks: dynamics, topological properties, simulation, and applications in information processing;
- Hybrid quantum-classical information frameworks.

We look forward to receiving your contributions.

Guest Editors

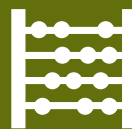
Dr. Tian Chen

Dr. Huihui Zhu

Dr. Zan Tang

Deadline for manuscript submissions

31 December 2026



Axioms

an Open Access Journal
by MDPI

Impact Factor 1.6



mdpi.com/si/274497

Axioms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
axioms@mdpi.com

[mdpi.com/journal/
axioms](https://mdpi.com/journal/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)