

Special Issue

Advanced Applications with Computing Methods in Information Security

Message from the Guest Editor

We are pleased to announce an upcoming Special Issue on the profound influence of Machine Learning and Generative AI across a range of advanced scientific and engineering disciplines, including Applied Mathematics, Fluid Mechanics, Solid Mechanics, and Astrodynamics, highlighting how these technologies are redefining both theoretical and applied research in these fields, bringing new insights into the behavior of dynamic systems and expanding the frontiers of predictive modeling. Emphasis will be placed on Theoretical Seismology and Earthquake Engineering, focusing on intelligent computational models that enhance our understanding of wave propagation. These advancements improve earthquake detection, resilience, and refine Full Wave Inversion techniques for subsurface imaging and material characterization. This issue will also feature groundbreaking research in Brain dynamics, focusing on how AI can model brain activity with unprecedented accuracy, fostering progress in neuroscience and medical diagnostics. By bridging AI with traditional physical sciences, we aim to foster innovations across diverse fields, from seismology to astrophysics.

Guest Editor

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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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Prof. Dr. Francisco Chiclana

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).