

Special Issue

Applications of Mathematical and AI-Based Methods in Biomedical Informatics

Message from the Guest Editor

This Special Issue aims to showcase new advances and diverse approaches in artificial intelligence (AI) and mathematical methods for biomedical informatics, highlighting innovative and practical solutions that address the evolving landscape of biomedical research and healthcare.

We particularly welcome research that demonstrates deployment impact or real-world applications, emphasizing the translation of theoretical advances into practical biomedical informatics strategies. We invite submissions that explore theoretical foundations, mathematical modeling, computational techniques, and practical implementations supporting biomedical data analysis and healthcare outcomes. The goal is to foster collaboration among mathematicians, computer scientists, engineers, practitioners, and biomedical researchers to advance intelligent, deployable biomedical informatics techniques.

Selected papers will provide new insights into detection accuracy, system resilience, and practical improvements for real-world applications using AI and mathematical methods.

Guest Editor

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30 November 2026



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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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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.4 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2026).