

Special Issue

Applications of Mathematical Models in Image Processing and Algorithm Theory

Message from the Guest Editors

We extend to you an invitation to participate in our Special Issue titled **Applications of Mathematical Models in Image Processing and Algorithm Theory** for the *Mathematics* journal. This Special Issue aims to present high-impact scientific contributions related to the development, analysis, and application of mathematical models in the field of image processing and computer vision. This Special Issue is set to include papers ranging from fundamental theoretical research to practical applications in various domains, as well as review articles and case studies that provide a comprehensive overview of the state of the art. Particular value will be given to contributions that stand out for their originality, methodological rigor, and potential for real-world implementation. This collection seeks to strengthen interdisciplinary dialogue among applied mathematics, engineering, computer science, and cognitive sciences, thereby advancing knowledge in modern techniques for image analysis and processing, pattern recognition, segmentation, 3D reconstruction, deep learning, and computer vision.

Guest Editors

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).