

Special Issue

Mathematical Method for Image Processing and Computer Vision

Message from the Guest Editors

The rapid advancement of image processing and computer vision is deeply rooted in the development of innovative computational models and learning frameworks. Modern techniques, such as convolutional neural networks (CNNs), vision transformers, generative adversarial networks (GANs), diffusion models, and attention mechanisms, inherently reflect the complexity and specificity of visual data in real-world scenarios. This Special Issue invites contributions that explore cutting-edge methodologies in image processing and computer vision. We welcome studies focusing on the design and analysis of novel architectures (e.g., neural operators, lightweight networks), efficient algorithms for real-time processing, theoretical insights into model generalization, and applications in emerging domains like quantum-enhanced vision systems or bio-inspired computing. Submissions demonstrating interdisciplinary approaches bridging mathematics, optimization, and domain-specific challenges are particularly encouraged.

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Deadline for manuscript submissions

31 December 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/232322

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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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