

Special Issue

Mathematical Models in Computer Vision

Message from the Guest Editor

This Special Issue aims to bring together cutting-edge research that explores mathematical models across various computer vision applications. We are particularly interested in contributions that showcase novel algorithms, groundbreaking methods with mathematical models, and their applications in solving complex computer vision problems. We are seeking original research articles, comprehensive reviews, and insightful case studies that align with the following themes:

- 3D reconstruction;
- 3D from single images;
- Adversarial attack and defense;
- Autonomous driving;
- Biometrics;
- Computational imaging;
- Computer vision for social good;
- Efficient and scalable vision;
- Explainable computer vision;
- Humans: face, body, pose, gesture, and movement;
- Image and video synthesis and generation;
- Low-level vision;
- Medical and biological vision and cell microscopy;
- Multimodal learning;
- Optimization methods;
- Photogrammetry and remote sensing;
- Recognition: categorization, detection, and retrieval;
- Computer vision for robotics.

This Special Issue offers an excellent platform to reach a broad audience of researchers, practitioners, and educators in the field of computer science.

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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Author Benefits

High Visibility:

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Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

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).