

Special Issue

Advanced Machine Vision with Mathematics

Message from the Guest Editor

Machine vision technologies have undergone significant advancements in recent years, fueling their widespread applications across various industries. Leveraging computer vision, artificial intelligence, and hardware innovations, these technologies are transforming automation, inspection, and analysis processes. With the ever-evolving technology landscape, the potential applications of machine vision continue to expand, offering enhanced precision, efficiency, and innovation across numerous domains. This special issue aims to invite and publish recent research studies on the latest advancements in various machine vision technologies and their recent applications across diverse industries. Topics include, but are not limited to:

- Image classification;
- object recognition and detection;
- image segmentation;
- feature extraction;
- image registration;
- object tracking;
- 3D vision;
- generative models;
- biometrics;
- deep learning for machine vision;
- visual slam;
- medical imaging;
- other applications of machine vision.

Guest Editor

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Deadline for manuscript submissions

closed (20 July 2025)



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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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