

Special Issue

Machine Learning Applications in Image Processing and Computer Vision

Message from the Guest Editor

We are pleased to invite you to submit papers to a Special Issue dedicated to advancing the synergy between mathematical modeling, analytical methods, and machine learning techniques in image processing and computer vision. This Special Issue aims to showcase innovative research that addresses pressing challenges in various domains, such as medical diagnostics, biological imaging, remote sensing, and satellite image analysis, among others.

We seek contributions that propose novel solutions to improve the robustness, accuracy, interpretability, and explainability of algorithms within these fields. Submissions may include but are not limited to, work that combines mathematical modeling with machine learning to enhance image analysis workflows, develop better noise reduction or feature extraction techniques, or create new approaches for image segmentation, classification, and anomaly detection.

Furthermore, we welcome studies that propose frameworks to tackle domain-specific image challenges or that demonstrate the potential of interdisciplinary approaches to overcome limitations in traditional methods.

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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