

Special Issue

Image Processing and Computer Vision

Message from the Guest Editors

This Special Issue aims to highlight recent advances and emerging challenges in image processing and computer vision, with a particular emphasis on different levels and modalities. At the low level, research continues to improve robustness, efficiency, and quality in classic tasks such as denoising, deblurring, super-resolution, and compression. Meanwhile, high-level tasks—such as segmentation, detection, captioning, and visual reasoning—are increasingly being tackled with powerful backbone models that leverage 3D spatial understanding, semantic grounding, and cross-modal alignment. The arrival of vision language models (VLMs) and multimodal large language models (MLLMs) has opened new opportunities for integrating perception and cognition. At the same time, challenges remain in learning effective and transferable representations from noisy, incomplete, or weakly labeled data, especially in 3D scenes and real-world long-tailed scenarios. Accordingly, this Special Issue aims to gather cutting-edge research that advances the state of the art in image processing and computer vision across all levels of visual understanding.

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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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