

Special Issue

Advanced Research in Image Processing and Optimization Methods

Message from the Guest Editor

Image processing techniques have been developed to solve many practical science and engineering problems, supported by proper mathematical foundations. The current trends of image processing include, non-exhaustively, image enhancement and restoration, object segmentation, information extraction, text recognition, object classification and recognition, robot localization and mapping, encryption and steganography, image inpainting and 3D reconstruction, and scene modelling, among others. Many applications of image processing have since emerged, some of them contributing to human health by detecting and classifying sensitive or abnormal structures in biomedical images. The accuracy and effectiveness of image processing technical have been substantially improved, including the well-known optimization methods, starting with the traditional gradient-based methods up to the most modern metaheuristic and hyperheuristic optimization methods. In this context, this Special Issue is now open to receiving high-quality papers for reviewing and publishing the accepted manuscripts in close-related areas to advanced research in image processing and optimization methods.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 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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