Special Issue

Mathematical Methods in Image Processing and Computer Vision

Message from the Guest Editors

The image processing and computer vision tasks mainly contain image classification, detection, denoising, retrieval or segmentation. These successes largely attribute to the application of various mathematical methods (e.g., optimization, analysis, statistics, geometry, and algebra). They provide solid theoretical support for performance improvement in specific domains, which in turn have inspired the advancement of mathematical methods to a certain degree. Mathematical models have played a critical role in modeling problems, designing algorithms and analyzing performance for image processing and computer vision tasks. How to further apply mathematical methods into image processing and computer vision is an essential problem worth studying. This Special Issue aims to bring together researchers investigating mathematical methods to solve diverse problems of image processing and computer vision tasks. Both state-of-the-art works, as well as literature reviews, are welcome for submission. Papers addressing interesting real-world computer vision applications are especially encouraged.

Guest Editors

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Deadline for manuscript submissions

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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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