Mathematical Methods in Image Processing and Computer Vision

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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.

Special Issue

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Message from the Editor-in-Chief

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