Mathematics Methods in Image Processing and Computer Vision

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Deadline for manuscript submissions:
31 March 2025

Message from the Guest Editor

Dear Colleagues,

This Special Issue is dedicated to exploring the realm of numerical modeling in the complex domain of image representation and computer vision. The topics to be covered include, but are not confined to, pattern recognition and machine learning, image processing and computer vision, biometric recognition, feature extraction and feature selection, cross-modal learning, optimization learning methods, medical image analysis, and document analysis and recognition.

The advancement of computational technology has paved the way for the integration of complex numerical models and high-performance simulations in various engineering fields. As an important field of artificial intelligence, image representation and computer vision are often considered as the key bridges for human–computer interaction, as they combine expertise from these two fields to solve problems related to machine vision. The establishment of mathematical models provides more effective theoretical guidance for complex image representation and machine vision problems and plays an important role in solving complex problems.

mdpi.com/si/207921

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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