Special Issue

Mathematics Methods in Image Processing and Computer Vision

Message from the Guest Editor

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.

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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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