Artificial Intelligence: Deep Learning and Computer Vision

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Deadline for manuscript submissions:
30 April 2025

Message from the Guest Editors

This Special Issue will present recent applications of artificial intelligence for computer vision. Special attention is devoted to deep learning methods using convolutional and transformer-based architectures. This Special Issue will accept high-quality papers containing original research results and review articles in the following fields:

- Image or video segmentation using deep neural networks;
- Image or video classification using deep neural networks;
- Image or video restoration or reconstruction using deep neural networks;
- Image to X and image from X reconstruction using deep neural networks;
- Autonomous robot or vehicle navigation using deep neural networks for images;
- Object detection in images or video using deep neural networks;
- Three-dimensional reconstruction or depth estimation using deep neural networks;
- Generative deep learning for images;
- Image-based deep reinforcement learning;
- Computational methods for computer vision using deep neural networks;
- Optimization algorithms for computer vision using deep neural networks;
- Intelligent systems for computer vision using deep neural networks.

Special Issue

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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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