Mathematical Methods in Artificial Intelligence for Image Processing

Guest Editor:

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Message from the Guest Editor

During the last decade, Artificial Intelligence (AI) and image processing have undergone remarkable advancements, transforming a wide array of domains and leading to groundbreaking applications. The fusion of AI's cognitive capabilities and sophisticated image processing techniques has revolutionized industries, catalyzed innovation, and enhanced everyday life in numerous ways.

This Special Issue aims to provide an international platform for the swift publication of research from theoretical analysis to practical applications of AI in image processing across branches of engineering. Submitted papers should present novel AI techniques in image processing and applications to real-world engineering problems.

The topics of interest for publication include, but are not limited to, the following:

- Real world applications;
- Artificial intelligence techniques;
- Image generation and enhancement;
- Image processing and analysis;
- Image recognition and classification;
- Image reconstruction and restoration;
- Object detection and segmentation;
- Artificial intelligence in computer vision;
- Real-time image and video processing;
- Simulation and modelling;

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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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