

# Special Issue

## Emerging Deep Learning Models and Applications in Image Processing and Computer Vision

### Message from the Guest Editor

The goal of this Special Issue is to gather articles that address new and existing challenges in image processing and computer vision using advanced deep learning algorithms and models. We are particularly interested in approaches that push the boundaries of traditional image analysis by leveraging innovative deep learning techniques. Studies that integrate hybrid methods, combining deep learning with other machine learning or optimization techniques, are also highly encouraged. Furthermore, applications that use novel deep neural network architectures and frameworks—such as convolutional neural networks (CNNs), generative adversarial networks (GANs), transformers, and diffusion models—for tasks like image recognition, object detection, segmentation, anomaly detection, 3D Gaussian splatting, and 3D image reconstruction, would be highly relevant to this Special Issue. We welcome a wide range of contributions, especially those demonstrating practical applications, theoretical advancements, or novel implementations in real-world computer vision tasks.

### Guest Editor

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### Deadline for manuscript submissions

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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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### Editor-in-Chief

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