Special Issue

Advanced Machine Learning Algorithms for Image Processing

Message from the Guest Editors

With this Special Issue, we aim to showcase cutting-edge research that pushes the boundaries of both the machine learning and image processing fields, offering novel solutions to complex problems and unveiling exciting opportunities for the future. We believe that this Special Issue would be a very good opportunity to highlight the results of your hard work in these fields. We seek high-quality papers in a range of related fields including, but not limited to, the following:

- Deep learning architectures (e.g., CNNs, RNNs, GANs, or Transformer-based models) for feature extraction, recognition, and generation.
- Transfer learning and few-shot learning for efficient training with limited labeled data.
- Explainable AI and interpretability in image processing tasks to provide insights into decision-making processes.
- Advances in image processing and computer vision tasks such as object detection and recognition, image segmentation, image classification, image restoration and enhancement, and image analysis.
- Applications of machine learning and image processing in various domains such as medical imaging, remote sensing, autonomous vehicles, and art restoration.

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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