Special Issue

Machine Learning Algorithms for Image Understanding and Analysis

Message from the Guest Editor

This Special Issue calls for innovative contributions on developing and applying machine learning algorithms to advance image understanding and analysis. We invite papers covering new algorithms, models, and frameworks using machine learning, computer vision, and AI to extract meaningful information from complex image data across domains and modalities. Topics of interest include deep neural networks for image recognition and segmentation, graph-based machine learning algorithms, adversarial learning methods, explainable AI models, as well as image analysis techniques for the re-identification and understanding of patterns, activities, relationships, and high-level concepts. Both theoretical developments and applications of machine learning algorithms on image data are within the scope of this Special Issue. Submissions offering new insights into image analysis using machine learning are highly encouraged.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2025)

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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.

Editor-in-Chief

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