Machine Learning in Image Processing and Pattern Recognition: Modern Methods and Applications

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Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editors

Machine learning research is continuously progressing at an amazing speed for a scientific discipline. The purpose of this Special Issue is to stimulate a systematic incursion in the modern methods of machine learning for image processing and pattern recognition and to correlate them with practical applications. Of particular interest are papers trying to connect the algebraic topology methods with machine learning models for a better study and evaluation of datasets and their organization, papers concerning the efficient training of neural networks using bio-inspired heuristics, papers involving explainable machine learning perspectives or papers dealing with novel incremental learning algorithms.

From the application side, we welcome papers introducing novel machine learning models for vision, bioinformatics, medical image processing and diagnosis or automatic video analysis and scene understanding. Of course, we are not limiting ourselves to only these topics and any theoretically solid contribution to the field of machine learning related to image processing or pattern recognition will be considered.

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Special Issue

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Message from the Editor-in-Chief

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