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Deep Learning and Computer Vision for Object Recognition

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Message from the Guest Editors

In the last decade, we have witnessed the increasing significance of deep learning techniques and deep neural network architectures in artificial intelligence (AI) research, especially in the field of computer vision. These methods have contributed to important advances in image processing and pattern recognition (e.g., object detection), becoming a de facto standard in approaching such tasks. Deep learning for computer vision is still a very fast-growing scientific branch, as shown by recent work on transformers and ConvNet models. The task of object recognition, that is, the identification of specific objects within an image or frame sequence, aims to localize and classify items that are of interest in a wide range of applications.

This Special Issue aims to explore recent advances and trends in the use of deep learning and computer vision methods for object recognition, and seeks original contributions that point out possible ways to deal with scarce and heterogeneous input data, as well as the variability of input domains. This includes but is not limited to meta-learning techniques, one-shot or few-shot learning, data augmentation, and fast or real-time object detection.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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