Special Issue

Advanced Convolutional Neural Network (CNN) Technology in Object Detection and Data Processing

Message from the Guest Editor

Convolutional neural networks (CNNs) and related deep neural networks have seen great success in machine learning and computer vision. Advanced CNNs, such as fast, faster R-CNN, have achieved breakthrough performance in object detection. Recently, transformer models have been widely applied in classification, object detection, and multimodal machine learning tasks. To further boost the research and application of advanced deep neural networks in various computer vision applications, this Special Issue aims to gather and collect advanced deep neural networks and algorithms in the field of computer vision and related areas. We encouraged the submission of research papers on, but not restricted to, object detection, image segmentation, and classification. **Keywords:**

- convolutional neural network
- computer vision
- object detection
- image segmentation
- image classification

Guest Editor

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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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