Special Issue

Deep Convolutional Neural Networks

Message from the Guest Editor

Recently, deep learning algorithms have come to prominence owing to their excellent performance among machine learning algorithms. Particularly, such algorithms provide human-level performance in tasks such as face recognition based on deep convolutional neural networks.
Studies based on convolutional neural networks are being actively conducted not only in the field of computer vision using images such as image classification, object detection, instance segmentation, video classification, and gesture recognition, but also in natural language processing using text and speech data and in prediction studies using high-dimensional time-series data. Therefore, the main focus of this Special Issue is on new methodologies based on deep convolutional neural networks applied to various industries such as medical, construction, manufacturing, and agriculture. Furthermore, this issue includes novel architecture studies of deep convolutional neural networks for various data types such as text, time series, and images. Additionally, methodologies that can compact and speed up deep convolutional neural networks for on-device applications are covered.

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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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