



Deep Convolutional Neural Networks

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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

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