



Information-Theoretic Approaches in Deep Learning

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Message from the Guest Editor

Dear Colleagues,

Deep Learning (DL) has revolutionized machine learning, especially in the last decade. In recent years, we have been observing a stunning evolution in computing technologies. As a benefit of this unprecedented development, we are capable of working with very large Neural Networks (NNs), composed of multiple layers (Deep Neural Networks), in many applications. DL is based on feature learning and data representation. Although many Convolutional Neural Network (CNN) and Recurrent Neural Network (RNN) based algorithms have been proposed, a comprehensive theoretical understanding of DNNs remains to be a major research area.

In this Special Issue, we would like to collect papers focusing on both the theory and applications of information-theoretic approaches for Deep Learning. The application areas are diverse and some of them include object tracking/detection, speech recognition, natural language processing, neuroscience, bioinformatics, engineering, finance, astronomy, and Earth and space sciences.

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Guest Editor

