

Special Issue

Deep Learning Techniques for Big Data Analysis

Message from the Guest Editor

Dear colleagues, Deep learning (DL) is a subset of artificial intelligence (AI) which is applied to automatically dig through large volumes of data to identify patterns and extract features from complex unsupervised data without the involvement of humans. Classic neural networks, convolutional neural networks (CNN), recurrent neural networks (RNNs), generative adversarial networks, deep reinforcement learning, etc. are some of the important DL algorithms which could be used for image data analysis, pattern recognition, speech recognition, and to perform several computer vision tasks. Applications of DL for image, audio, video, and text data in unstructured form can help us to make smart decisions and build effective strategies by focusing on perspectives and needs of real-world buyers and users of technology. The exponential growth of big data would be meaningless unless technologies such as AI and DL are used for the anomaly detection, pattern recognition, and industrial fault detection. It is pivotal to design efficient algorithms, models, and methodologies of DL to analyze the big data generated from the industry, healthcare, smart cities, and the medical field.

Guest Editor

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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