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

Prof. Prasan Kumar Sahoo

Department of Computer Science and Information Engineering, Chang Gung University, Guishan 33302, Taiwan

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Electronics
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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