Special Issue

Big Data Analysis and Management Based on Deep Learning

Message from the Guest Editors

With the development of information society, the data scale is becoming larger and larger, and heterogeneous information is significantly expanded, including a series of cross media content, including video, image, remote sensing, audio, text, and other data. At present, the emergence of increasingly complex big data brings more challenges to the current big data analysis technology. Because of its multilayer nonlinear structure, the deep learning model has a strong feature learning ability, which provides an effective way to solve the above problems. For data-driven representation learning, such as speech recognition, target detection, image classification, and machine translation, deep learning shows unique advantages. Therefore, this Special Issue aims to collate original research and review articles that emphasize the important role of deep learning for big data analysis. It aims to call for state-of-the-art research in the theory, algorithm, modeling, system, and application of deep learning-based big data analysis and to demonstrate the latest efforts of relevant researchers.

Guest Editors

Prof. Dr. Min Xia

School of Automation, Nanjing University of Information Science and Technology, 219 Ningliu Rd., Nanjing 210044, China

Dr. Kai Hu

Jiangsu Key Laboratory of Big Data Analysis Technology, Nanjing University of Information Science and Technology, Nanjing 210044, China

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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