Special Issue

Advances in Applied Deep Learning Based Methods and Architectures for Data Analytics

Message from the Guest Editors

This Special Issue of *Applied Sciences* focuses on recent research work on deep learning techniques that may be tailored to perform data analytics, including big data. Of special interest is state-of-the-art research on theoretical and applied methods in deep-learning-based data analytics within science and engineering. The topics of interest also include, but are not limited to: new deep-neural-network-based (DNNs) architectures and novel applications of ensembles of DNNs for data analytics; efficient processing methods in real-time with deep learning algorithms, novel frameworks, architectures, and pipelines of distributed-cloud-based DNNs; emerging applications of deep learning with probabilistic deep neural networks, temporal convolutional networks, transformer deep learning models for data analytics, variational methods, recurrent neural networks for predictive analytics, and reinforcement learning approaches for prescriptive data analytics. We invite authors to contribute original research work in this peer-reviewed Special Issue of *Applied Sciences.* Keywords

- deep learning
- data analytics
- big data
- deep neural networks

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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.

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