Special Issue

Research and Application of Neural Networks

Message from the Guest Editors

The current world is based on modern technologies. These are supported by artificial intelligence, which surrounds us at every step. Its use is growing not only in traditional areas of application, but also in new research areas. Neural networks are a basic technique used in the application of artificial intelligence. Their properties show that they are a useful tool for all applications in everyday life, as well as for specialized engineering solutions. They belong to a group of algorithmic methods used in solving complex problems of a non-linear nature. Neural networks are used in cases of a partial or complete lack of knowledge of the rules describing objects or processes. From personal health recommendations, autonomous vehicles, and market sentiment analysis to natural language recognition and image recognition, various models based on neural networks are able to solve complex classification and regression problems. The growing use of neural networks has accelerated research in all fields. This Special Issue aims to present and disseminate the latest achievements related to the theory, design, modeling, and applications of neural networks.

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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

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