Special Issue

Advances in Neural Networks and Deep Learning

Message from the Guest Editors

Neural networks and deep learning are rapidly growing fields that have become crucial in various domains such as image recognition, speech recognition, natural language processing, and robotics. This Special Issue aims to provide a platform for researchers to share their latest advances in neural networks and deep learning, and their applications in solving real-world problems. Topics of interest for this Special Issue include, but are not limited to:

- New architectures and algorithms for neural networks and deep learning;
- Advances in fuzzy neural networks, spiking neural network, extreme learning machine and support vector machine;
- Applications of neural networks and deep learning in computer vision, speech recognition, natural language processing, and robotics;
- Transfering learning techniques in neural networks and deep learning;
- Neural network optimization and regularization techniques;
- Deep learning for data analysis and prediction;
- Adversarial machine learning and its applications.

Guest Editors

Prof. Dr. Dongpo Xu

Prof. Dr. Huisheng Zhang

Dr. Jie Yang

Deadline for manuscript submissions

closed (30 April 2025)

MDPI

About the Journal

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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