

## Special Issue

# Application, Optimization and Architecture of Deep Learning Neural Network

### Message from the Guest Editor

With the surge in images and videos that need to be processed, deep learning neural networks are becoming a popular and essential tool for solving various problems, such as classification, detection, and regression. The new deep architectures have led to advances in less computational resources and to more reliable results. Therefore, in this Special Issue, we aim to present novel deep learning algorithms and their applications in various research fields. Submitted articles can cover various topics, including but not limited to deep learning, artificial intelligence, and the processing of large datasets from medical instruments, ground-based datasets, scientific experiments, and many other sources.

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### Guest Editor

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### Deadline for manuscript submissions

20 September 2025



## Applied Sciences

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## 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.

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### Editor-in-Chief

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