

Special Issue

New Trends in Neural Networks and Artificial Intelligence

Message from the Guest Editors

Artificial intelligence (AI) and neural networks are evolving rapidly, enabling breakthroughs in deep learning, reinforcement learning, generative modeling, and explainable AI. This special issue aims to highlight innovative research and applications that advance the theory, methodology, and practical deployment of AI. We invite original contributions that address novel architectures, training strategies, optimization methods, and interdisciplinary applications across healthcare, finance, robotics, climate science, and more. Submissions that explore ethical, responsible, and trustworthy AI are particularly welcome. This Special Issue highlights recent advances and emerging trends in neural networks and artificial intelligence. It welcomes contributions on novel architectures, learning paradigms, optimization techniques, and applications, with emphasis on explainable, ethical, and responsible AI that bridges theory and practice. Keywords:

- neural networks
- deep learning
- reinforcement learning
- generative AI
- explainable AI
- trustworthy AI
- transfer learning
- federated learning
- edge AI
- NLP
- computer vision
- optimization methods
- ethical AI
- responsible AI
- AI applications

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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.

Editor-in-Chief

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