Special Issue

Applications in Neural and Symbolic Artificial Intelligence

Message from the Guest Editors

Neural-based AI, often referred to as deep learning, leverages artificial neural networks (ANNs) to model complex patterns in data. These networks, inspired by the human brain's structure, consist of interconnected neurons that process inputs and learn from vast amounts of data. Deep learning has revolutionized various fields, including image and speech recognition, natural language processing, and autonomous systems. However, neural networks require extensive data for training and often operate as "black boxes", lacking interpretability and the ability to reason logically.

Topics of interest include, but are not limited to, the following:

Advancements in deep learning techniques for neuro-symbolic integration.
Innovative approaches to knowledge representation in AI.
Cognitive science perspectives on neuro-symbolic AI.
Case studies and applications of neuro-symbolic AI in science, industry and academia.
Ethical considerations and trustworthiness in neuro-symbolic AI.
Future directions and the potential of human-like interaction in AI.

Guest Editors

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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.

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