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Deep Learning Architecture and Applications

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Message from the Guest Editors

As one of the fastest-growing topics in machine learning, deep learning algorithms have achieved unprecedented success in recent years. Novel paradigms in deep learning and rising neural network architectures are dramatically changing the landscape of data-driven algorithms. More importantly, deep learning models, serving as powerful tools, are redefining the next generation of industrial applications spanning image recognition, speech processing, language translation, healthcare, and even sciences.

This Special Issue aims to supply a platform for the publication of novel deep learning algorithms/frameworks and their applications in real-world scenarios. The topics include but are not limited to the following:

- Supervised learning
- Unsupervised learning
- Reinforcement learning
- Explainability, generability, robustness, and fairness in deep learning
- Applications of deep learning
- Deep learning for health
- Deep learning for sciences

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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