From Edge Devices to Cloud Computing and Datacenters: Emerging Machine Learning Applications, Algorithms, and Optimizations

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Deadline for manuscript submissions:
closed (31 August 2024)

Message from the Guest Editor

Dear Colleagues,

In the last decade, machine learning has emerged as an important tool for a tremendous number of applications, such as computer vision, medicine, fintech, autonomous systems, speech recognition, and many others. Machine learning models offer state-of-the-art accuracy and robustness in many applications. The increasing deployment of machine learning algorithms from edge and IoT devices to high-end computational infrastructures, such as supercomputers, the cloud, and datacenters, introduces major computational challenges due to the growing amount of data and also the major growth in their model size and complexity. This Special Issue looks for novel developments of emerging machine learning applications, algorithms, and optimization in diverse computational platforms such as:

- Novel IoT and edge devices' machine learning applications;
- High-performance computing machine learning algorithms;
- Machine learning applications in cloud and fog computing;
- Fusion of machine learning models between edge and cloud;
- Machine learning optimization methods such as pruning and deep compression.

Special Issue

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Message from the Editor-in-Chief

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