Topical Collection

Machine Learning for Signal, Image, and Video Processing

Message from the Collection Editor

This Topical Collection puts the focus on ML models for signal, image, and video processing. The goal is to collect manuscripts presenting methodologies, systems, and novel solutions that address the integration of ML into hardware platforms for building the next generation of sensor-based intelligent systems. The topics of interest for this Collection include, but are not limited to:

- High-performance, low-power computing for deep-learning-based computer vision;
- High-performance, low-power computing for deep-learning-based audio and speech processing;
- Embedded machine learning;
- Machine learning implementations on FPGAs;
- Online learning on resource-constrained edge devices;
- On-chip training of machine learning models;
- Lightweight architectures for deep learning;
- Adversarial attacks to machine learning.

Collection Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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