Machine Learning for Signal, Image, and Video Processing

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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.

*Topical*Collection

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Message from the Editor-in-Chief

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