

Special Issue

Machine Learning in Image/Video Processing and Sensing

Message from the Guest Editor

In recent years, machine learning methods have been increasingly applied to video and image processing, such as video compression, image denoising, super resolution, image generation, etc. At the algorithmic level, more and more video image processing algorithms are based on machine learning, achieving better video and image quality, as well as video compression rates. But, at the same time, they also face challenges in computational complexity and real-time processing capabilities. At the hardware level, some machine learning methods are gradually being applied to processor design, such as AI-ISP processors and AI-Codec processors. At the same time, they also face the challenge of integrating traditional hardware modules with machine learning acceleration modules. This Special Issue is focused on machine learning in image/video processing and sensing technologies, addressing (but not limited to) the following topics:

- Machine learning in image and video compression;
- Machine learning in image processing and enhancement;
- Hardware design of accelerator for machine learning;
- Hardware design of AI-Codec;
- Hardware design of AI-ISP.

Guest Editor

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Message from the Editor-in-Chief

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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