Special Issue

Sensors and Machine-Learning Based Signal Processing

Message from the Guest Editors

Combined sensors, signal processing, and machine learning can lead to robust solutions for automating decision-making processes in various fields. Traditional digital signal processing (DSP) involves various mathematical operations and algorithms in order to process, filter, modify, and analyze digital signals. It has widespread applications in various fields. Machine learning (ML) has recently significantly impacted DSP, revolutionizing many traditional approaches and creating new possibilities. A key prerequisite for ML implementation is harnessing data from sensors which collect the raw data necessary to analyze and extract meaningful information. By integrating sensors with ML techniques, we can create intelligent systems that can adapt, improve, and make accurate predictions or decisions based on real-time data. Some of the ML applications to DSP that are of particular interest to us in this Special Issue include: Signal Classification Signal denoising and enhancement; Signal reconstruction and synthesis; Time-series prediction and forecasting; Adaptive filtering; Feature extraction; Optimization and parameter tuning; Model-driven ML

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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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