

Special Issue

Image/Video Coding and Processing Techniques for Intelligent Sensor Nodes

Message from the Guest Editors

There is an increasing interest in developing intelligent sensor nodes which enable intelligent processing for Internet of Things (IoT) surveillance, remote sensing, and smart city applications. The data are processed on board by embedded signal processing and machine learning-based analysis algorithms. Such machine learning-driven sensors can transmit key information instead of raw sensing data, lowering the data volume traveling throughout the network. Due to the explosion of image and video data in IoT systems, specifically designed image and video codecs have been preferred in recent years. With a focus on reducing the data burden and improving the reconstructed image quality, image/video coding and processing techniques performing in low-cost implementations, saving power consumption, and increasing the battery lifetime will cope with the design requirements of sensor nodes. Moreover, intelligent sensors change the traditional intuition-driven sensors in support of machine learning algorithms, delivering high-resolution images and videos for the 5G revolution.

Guest Editors

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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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