

Special Issue

Integrated Circuits and Systems for Smart Sensors

Message from the Guest Editor

Smart sensors function as intelligent detectors of temperature, humidity, light, image, pressure, speed, acceleration, displacement, rotation, gas, ultrasound, flow, magnetic force, current, voltage, and so on. They are increasingly used in industries with various applications which require intelligent operations, such as medical, health care, automobile, manufacture, agriculture, military, environment, and security. Smart sensors not only consist of a sensing element, but also a digital converter, such as an analog-to-digital converter, a time-to-digital converter, and a frequency-to-digital converter; a digital signal processing block for canceling noise, compensating mismatch, offset, and bias, and calibrating nonlinear distortion; an energy harvester block for generating the power from heat, light, vibration, thermal difference, and electromagnetic waves; and a power management block for providing and distributing the appropriate power to the overall system. Thus, integrated circuits and systems play a key role in developing and delivering smart sensors. For more information, please click: mdpi.com/si/115595

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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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