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Integrated Circuits and Systems for Smart Sensor

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Message from the Guest Editor

Smart sensors are used more and more in industries, medical, health care, automobile, manufacture, agriculture, environment, and security. Smart sensors consist of not only a sensing element, but also a digital converter, like an analog-to-digital converter, time-to-digital converter, and 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, in addition to the materials and devices focused on sensing elements, integrated circuits and systems play a key role in developing and delivering smart sensors. Topics of this special issue include, but are not limited to, the following:

- Voltage and current domain readout circuits
- Time and frequency domain readout circuits
- Digital signal processing for sensors
- Data storage systems
- Wireless and wireline data transceivers
- Energy harvester circuits
- Power management circuits



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Special Issue



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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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