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Integrated Circuits and Systems for Smart Sensors

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Message from the Guest Editor

Dear Colleagues,

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.

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