Special Section on:

New Trends in Smart Sensors for Industrial Applications

In modern industry, productivity, quality, reliability and safety heavily depend on the performance of the applied sensors. They ensure an interface between the production equipment and the surrounding world, and also provide a feedback for the result of the executed operations. Thus, sensors can be found in extremely wide range of applications and play a fairly important role in industrial system. Especially, with the coming new technology wave of “Internet of Things” (IoT), smart sensors are not only expected to change dramatically the system design of the traditional industrial applications, but they will also enable a number of new emerging applications. However, such applications also place greater challenges on smart sensors and the overall sensor system design. The solutions for these challenges ask for new developments in all aspects of smart sensors and systems. The aim of this Special Section is to provide a platform for researchers and designers to share and showcase their latest developments on the topic of smart sensors for industrial applications.

Editors invite original manuscripts presenting recent advances in these fields with special reference to the following topics:

- Analog and digital design techniques for smart sensor readout
- Power converter and power management techniques in smart sensor systems
- Software and hardware design for smart sensor systems
- New MEMS and NEMS structures for smart sensors
- Signal processing for Smart Sensor Systems
- Emerging sensors and systems for industrial applications
- New trends in energy harvesting techniques for sensing applications
- New sensing principles and techniques
- Sensors for position, displacement, vibration, pressure, temperature, humidity, light, radiation, etc.

Manuscript Preparation and Submission

Check carefully the style of the journal described in the guidelines “Information for Authors” in the IEEE-IES website: http://www.ieee-ies.org/pubs/transactions-on-industrial-electronics.

Please submit your manuscript in electronic form through: https://mc.manuscriptcentral.com/tie-ieee/.

On the submitting page, in pop-up menu of manuscript type, select: “New Trends in Smart Sensors for Industrial Applications”, then upload all your manuscript files following the instructions given on the screen.

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Timetable
Deadline for manuscript submission: November 30, 2016
Information about manuscript acceptance: Winter, 2016
Publication Date: Spring, 2017