

CALL FOR PAPERS



Special Session on Low Power Smart Sensors in Industrial Applications

IECON 2018 - The 44th Annual Conference of the IEEE Industrial Electronics Society
October 21-23, 2018, Washington D.C, USA



TOPIC OF THE SPECIAL SESSION

Low power operation of smart sensors is of extreme relevance for the Internet of Things and Industry 4.0 development. Smart sensor is composed of sensory system, processing and transceiver unit. Electric signals are digitalized and processed by the processing unit after amplification and filtering and the transceiver connects the device to the outside world. The previously mentioned elements need energy and for this reason, harvesting from the operating environment is becoming an attractive solution. Simultaneously, device implementation should ensure efficient operation from the energy point of view.

The purpose of this special session is to bring together the most recent techniques, strategies, and algorithms developed to promote smart sensors efficient energy operation.

Topics of the Session:

- Developments and actions related with standardization
- Advanced techniques and platforms for development, verification, validation and benchmarking
- Energy harvesting methods and techniques
- Hardware or software implementations promoting device efficient energy operation
- Real-world deployments and applications, e.g. in the Internet of Thing or in Industry 4.0.

IEEE IES Technical Committee Sponsoring the Special Session:

- IEEE IES Standards Technical Committee.

ORGANIZED AND CO-CHAIRD BY

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Author's schedule:

- Deadline for submission of special session papers
May 1st, 2018
- Notification of acceptance
July 15th, 2018
- Deadline for submission of final manuscripts
August 1st, 2018