Special Issue

RFID-Enabled Sensor Design and Applications

Message from the Guest Editors

The dissemination of radio frequency identification (RFID) technology results primarily from the progress in the field of integrated electronics technology, as well as from our better understanding of the phenomena that determine the principles of the wireless transmission of information and energy at a distance. Until recently, RFID transponders were used only as electronic tags for marking objects. At present, these radio devices are becoming integrated into sensors of various physical quantities in order to monitor the operating state of marked objects, as well as to gather information on their working environment. On this basis, innovative applications of RFID transponder sensors can be developed towards distributed IT systems and their implementation can be achieved in various areas of socio-economic activity (e.g., Internet of Things, Industry 4.0, smart homes and cities, smart agriculture, e-healthcare, retail and supply chain). The progress in RFID transponder sensors also stimulates the availability and continuous improvements in low-power energy-efficient integrated circuits.

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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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