# **Special Issue**

# Intelligent Energy Autonomous Wireless Sensors

## Message from the Guest Editors

This Special Issue has a background in the market for Internet of Things (IoT) devices and wireless sensor networks. The global smart sensor market size trend will grow from USD 36.6 billion in 2020 to USD 87.6 billion by 2025, at a CAGR of 19.0 %. The energy harvesting systems market was worth USD 440.39 million in 2019. with a forecast to reach USD 817.2 million by 2025, at a CAGR of 10.91 %, over the forecast period from 2020 to 2025. In this scenario, powering a trillion-node IoT infrastructure would require trillions of batteries which poses maintenance problems and related nonnegligible management costs. Indeed, for every trillion nodes installed, 274 million batteries would need to be replaced every day, even in the best-case scenario where it is possible to assume that batteries reach their 10-year life expectancy. In this context, this Special Issue aims to call researchers to publish innovative systems, strategies, techniques, applications, and circuits for powering low-maintenance, energyautonomous, and battery-free devices. The principal intention is to supply a research contribution of a Wireless Sensor Node that is sustainable and needs minimal or no maintenance.

### **Guest Editors**

Dr. Roberto La Rosa

Prof. Dr. Catherine Dehollain

Prof. Dr. Patrizia Livreri

## Deadline for manuscript submissions

closed (10 February 2024)



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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/ sensors





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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.

#### Editor-in-Chief

### Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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