# **Special Issue**

## Ultra-Low Power Smart Sensor Networks and IoT Devices

## Message from the Guest Editors

Tens of billions of connected devices are foreseen for 2030, with an annual generated data volume of zettabytes. The dominant cost of communications and the need for short response times, as well as privacy concerns, have led to the emergence of embeddedcomputing artefacts, such as edge computing, embedded AI and smart sensors. Many efforts have been made to enhance the processing capabilities and communication efficiency of devices with limited resources and energy in many domains. However, the vast majority of existing smart devices are still limited by the inevitable repeated battery charge cycles. Substantial progress remains vital to allow sustainable devices that can combine high processing capabilities and long lifetimes. New enablers at the level of processor and system architectures, memory technologies, circuit design, and interconnect and communication protocols are yet to be invented. This Special Issue aims to provide an opportunity to present recent research works on ultra-low-power sensor networks, edge devices and IoT systems with significant processing capabilities over time. Original papers are welcome for submission.

### **Guest Editors**

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## Deadline for manuscript submissions

closed (31 July 2022)



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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

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