Special Issue

Smart Internet of Things System for Renewable Energy Resource

Message from the Guest Editors

IoT helps smart grids to support various network functions, including the generation, distribution, and consumption of energy, by incorporating IoT devices (such as sensors, actuators, and smart meters) with their related connectivity, automation, and tracking abilities. For these applications, the use of low-power long-range wireless networks (LPWANs) is fundamental to facilitate all necessary tasks in the smart grids of City 4.0 and Industry 4.0. The integration of renewable energies (photovoltaic solar, wind energy, biomass energy, hydroelectric energy, and other sources) in smart grids implies the monitoring of households, cities, industries, and electric vehicles at all times. The development of monitoring and control applications using mobile devices is fundamental in these systems, which complement all the possibilities offered by the IoT. Smart energy meters allow for communication between consumers and utility command centers to exchange messages about electrical consumption. Thus, it is essential to have access to them from any location, including instant access to information using mobile devices or computers.

Guest Editors

Prof. Dr. Antonio Cano-Ortega

Electrical Engineering Department, University of Jaen, Campus Las Lagunillas, s/n, 23071 Jaen, Spain

Prof. Dr. Francisco Sánchez-Sutil

Electrical Engineering Department, University of Jaen, Campus Las Lagunillas, s/n, 23071 Jaen, Spain

Deadline for manuscript submissions

30 January 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/239478

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

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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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