

## Special Issue

# Applications of Sensor-Based IoT Network Monitoring and Wireless Communication

### Message from the Guest Editors

This Special Issue aims to examine the integration of sensor technology into the Internet of Things (IoT) framework to monitor and manage networked devices, with a focus on the role of wireless communication in facilitating these processes. It will cover the field of monitoring and controlling IoT devices using data collected from sensors, as well as developing related applications. Topics of particular interest include, but are not limited to, the following:

- Sensor integration into the IoT;
- The architecture of IoT systems;
- IoT-enabling technologies;
- IoT services, applications, standards, and testbeds;
- Sensors for environmental monitoring systems;
- Sensors for smart home systems;
- IoT technology in healthcare;
- Energy management for sensors;
- Wireless sensor network security;
- Agriculture and environmental monitoring;
- Industrial IoT;
- Network protocols and standards;
- Wireless communication technologies.

For detailed information, please visit [here](#).

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### Guest Editors

Dr. Demin Gao  
Dr. Xiaoyong Yan  
Dr. Ye Liu

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### Deadline for manuscript submissions

closed (20 October 2025)



## Sensors

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*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di  
Bari, Via Orabona 4, 70126 Bari, Italy

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