

## Special Issue

# Fault Detection, Diagnosis and Maintenance on Intelligent Transportation System

### Message from the Guest Editors

The monitoring and management of traffic structures is an important part of the modern traffic system. Modern and efficient road/rail infrastructure operations require regular monitoring and timely maintenance. By their nature, these are multidisciplinary challenges that require collaboration among different disciplines to develop and implement innovative solutions. In recent years, the development of sensing, IoT, big data, artificial intelligence, digitalization, visualization, and digital twins have provided novel solutions for the fault detection and diagnosis of existing transportation structures, which has ultimately led to improved management, sustainability, and extended life of such key infrastructure assets. The SI aims to provide a unique platform to publish state-of-the-art methods and applications for monitoring traffic structures. Both original research articles and reviews are welcome.

---

### Guest Editors

Dr. Yang Song

Prof. Dr. Xiaojun Wei

Dr. Alejandro Jiménez Ríos

---

### Deadline for manuscript submissions

closed (30 April 2025)



## Sensors

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.5**  
**CiteScore 8.2**  
**Indexed in PubMed**



[mdpi.com/si/159159](https://mdpi.com/si/159159)

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

[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)



## 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.

---

### 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

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)