

## Special Issue

# The Weather and Pollution Sensing for Intelligent Transport Systems

### Message from the Guest Editors

This Special Issue aims to highlight recent breakthroughs in road weather and air pollution sensing in the scope of CCAM technologies and applications; therefore, we seek high-quality submissions featuring both robust theoretical advances and practical engineering aspects. The topics of interest include but are not limited to:

- Weather-aware cooperative perception;
- Standards to accommodate weather/pollution data;
- Field trials;
- Road weather or pollution models;
- Impact of adverse road weather conditions in automated driving;
- Road sensors;
- Onboard pollution sensors;
- Cooperative sensing;
- Security and privacy issues;
- Massive machine type communications for CCAM;
- Software agents for cooperative sensing;
- Ad-hoc and mobile networks for the collection layer;
- High-definition dynamic maps with weather and pollution data;
- Weather and pollution sensing technology;
- Big data and AI for weather or pollution prediction;
- Personal handheld devices as sensing peripherals;
- Vehicular communications;
- Case studies;

### Guest Editors

Prof. Dr. Joaquim Ferreira

Escola Superior de Tecnologia e Gestão de Águeda, Instituto de Telecomunicações, Universidade de Aveiro, 3010-193 Aveiro, Portugal

Prof. Dr. Nadjib Aitsaadi

UVSQ Paris-Saclay University, France

### Deadline for manuscript submissions

closed (30 June 2022)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/48672](https://mdpi.com/si/48672)

*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)