

Special Issue

Sensing, Prediction, and Virtual Validation Technologies for Connected and Automated Vehicles

Message from the Guest Editors

Connected and automated driving technologies have the potential to revolutionize transportation by facilitating access to mobility services to a wider population, improving safety and traffic efficiency. This Special issue aims to collect original theoretical and empirical articles on sensing technologies, agent-based architectures, and AI-driven solutions, and applications for automated vehicles. We welcome interdisciplinary submissions that explore novel uses of external and internal sensing in automotive context. Potential topics include, but are not limited to, the following:

- automated and autonomous driving
- vehicle sensing technologies
- sensor fusion
- object detection and identification
- driver monitoring
- large language models in automotive industry

Guest Editors

Prof. Dr. Jaka Sodnik

Prof. Dr. Ignacio Alvarez

Dr. Eleni Mantouka

Deadline for manuscript submissions

28 February 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/251288

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)