

Special Issue

Sensors in Intelligent Vehicle Dynamics and Control

Message from the Guest Editors

Intelligent vehicle dynamics and control rely heavily on advanced sensor technologies to enhance safety, efficiency, and autonomous driving capabilities. Sensors play a crucial role in monitoring vehicle states, environmental conditions, and driver inputs, enabling real-time decision-making for stability control, traction management, and collision avoidance. Key sensors such as inertial measurement units (IMUs), wheel speed sensors, LiDAR, radar, and vision-based systems provide critical data on vehicle motion, road conditions, and surrounding obstacles. By integrating these sensors with advanced control algorithms, modern vehicles can adapt to dynamic driving scenarios, optimize performance, and ensure passenger comfort. Furthermore, the fusion of multi-sensor data improves system reliability and robustness, supporting the development of autonomous driving systems. This field continues to evolve with advancements in sensor accuracy, miniaturization, and AI-driven processing, paving the way for next-generation intelligent transportation systems.

Guest Editors

Dr. Bo Li

Prof. Dr. Shaoyi Bei

Dr. Fen Lin

Dr. Haichao Zhou

Prof. Dr. Nan Xu

Prof. Dr. Xiaolong Zhang

et al.

Deadline for manuscript submissions

30 May 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/250064

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
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 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)