



*sensors*



an Open Access Journal by MDPI

## Vehicle Sensing and Dynamic Control

Guest Editors:

**Prof. Dr. Juan A. Cabrera**

Department of Mechanical  
Engineering, University of  
Málaga, 29071 Málaga, Spain

**Dr. Javier Perez Fernandez**

Department of Mechanic  
Engineering and Fluid Mechanics,  
University of Málaga, 29071  
Málaga, Spain

Deadline for manuscript  
submissions:

**15 July 2024**

### Message from the Guest Editors

This Special Issue will address innovative research in the following areas:

The modeling and control of vehicle behavior: vehicle model, tire dynamic model, online learning and adaptation, model-based controller, linear-quadratic regulator (LQR), sliding mode control (SMC), H-infinity, and model predictive control (MPC).

Vehicle state estimation: Sensor fusion, Kalman Filtering (EKF, UKF), Recursive Least Squares (RLSs), Particle Filter, and Complementare Filter.

Active safety systems: development of intelligent control algorithms for anti-lock braking systems (ABSs), traction control systems (TCSs), electronic stability program (ESP), advanced driver assistance systems (ADASs), and the integration of related active safety features/devices into new vehicles.



[mdpi.com/si/181732](https://mdpi.com/si/181732)

# Special Issue



# sensors



an Open Access Journal by MDPI

## 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

## 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.

## 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 & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

## Contact Us

*Sensors* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)