



## Sensors and Artificial Intelligence in Autonomous Vehicles

Guest Editor:

**Dr. Mahdi Rezaei**

Institute for Transport Studies,  
University of Leeds, Leeds LS2  
9JT, UK

M.Rezaei@leeds.ac.uk

Deadline for manuscript  
submissions:

**31 December 2021**

### Message from the Guest Editor

The Special Issue “*Sensors and Artificial Intelligence in Autonomous Vehicles*” welcomes open call submissions in the state-of-the-art current and emerging technologies and methodologies in utilisation of single or multi-sensors for vehicle automation and AVs.

Prospective authors are welcome to submit original research (not published or currently under consideration by any other publication or conference) and technical papers in the field. Using sensor(s) technologies, the expected topics include but are not limited to the following:

- Vision, Radar, and LiDAR based perception
- Night vision in challenging lighting conditions
- Multi-modal and multi-sensor data fusion
- Autonomous driving, driverless cars, and robotaxis
- Sensors in resuming the control between human driver and automated driving mode
- Scene understanding and object detection
- Driver behavior monitoring/modelling
- Pedestrian and road users monitoring/modelling
- Advanced driver assistance systems (ADAS)
- Sensor applications in connected and automated vehicles (CAVs)
- AI and machine learning in AVs
- Human factors and safety in self-driving cars





*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](#), [Embase](#), [Ei Compendex](#), [Inspec](#), and many other databases.

**Journal Rank**: [JCR - Q1](#) (*Instruments & Instrumentation*) / [CiteScore](#) - Q1 (*Instrumentation*)

## Contact Us

---

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

Tel: +41 61 683 77 34  
Fax: +41 61 302 89 18  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[@Sensors\\_MDPI](https://twitter.com/Sensors_MDPI)