



Sensors and Artificial Intelligence in Autonomous Vehicles

Guest Editor:

Dr. Mahdi Rezaei

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

Deadline for manuscript
submissions:

closed (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](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)