



sensors



an Open Access Journal by MDPI

Sensors Technology in Autonomous Vehicles and Automated Driving Status, Perspectives and Societal Impact

Guest Editors:

Dr. Gábor Kiss

Institute of Mechanical Engineering and Security Science, Obuda University, H-1034 Budapest, Hungary

Prof. Dr. Valentina E. Balas

Department of Automatics and Applied Software, Faculty of Engineering, Aurel Vlaicu University of Arad, Ro-310025 Arad, Romania

Prof. Dr. Yu-Chen Lin

Department Automatic Control Engineering, Feng Chia University, Wenhwa Rd, Seatwen, Taichung 40724, Taiwan

Deadline for manuscript submissions:

31 October 2024

Message from the Guest Editors

Dear Colleagues,

Self-driving vehicles are expected to significantly reduce the number of fatal accidents caused by human error by enabling faster decision-making by a central unit that processes signals from built-in sensors. Level 4 self-driving vehicles are already on the road, capable of handling a large proportion of traffic situations and making driving more comfortable. Researchers are slowly focusing on the implementation of Level 5 full self-driving, which can now get passengers to their destination without human intervention, overcoming all traffic obstacles. Successful implementation will require not only good decision-making after proper processing of the data from sensors, but also social acceptance, as self-driving vehicles will have a significant impact on today's transport. This special issue of the journal focuses on these areas.

Potential topics include but are not limited to:

- Processing sensor data from self-driving vehicles
- Central unit decision-making
- Societal issues in the field of self-driving vehicles
- Perspectives in the field of self-driving
- Possible sensors in future self-driving vehicles



mdpi.com/si/135556

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 (*Chemistry, Analytical*) / 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

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