



sensors



an Open Access Journal by MDPI

Sensors and Object Detection for Autonomous Driving in Adverse Conditions

Guest Editor:

Prof. Dr. Steven L. Waslander

Institute for Aerospace Studies,
University of Toronto, Toronto,
ON M3H 5T6, Canada

Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editor

Dear Colleagues,

Autonomous driving benchmarks for object detection have primarily focused on local regions and benign conditions, yet much more diversity of environment and conditions will be required for these vehicles to reach the public market. Some detection benchmarks, such as the Waymo and CADC datasets, include precipitation and winter conditions but still rely primarily on vision and lidar as the primary sensing modalities. This Special Issue seeks papers that directly address issues related to autonomous driving in adverse conditions, from the sensor, dataset, or algorithmic side, in order to shine a light on the myriad challenges that remain in robust object detection in all weather conditions and driving environments.

For detailed information, please visit [here](#).

Dr. Steven L. Waslander

Guest Editor



mdpi.com/si/74971

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, Grosspeteranlage 5
4052 Basel, Switzerland

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

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