

Special Issue

Vehicle State Estimation and Localization for Autonomous and Connected Vehicles

Message from the Guest Editors

In recent years, several companies and research groups have invested in the topic of autonomous and connected vehicles to improve the safety, efficiency, and comfort of road users. To operate the autonomous and connected vehicles, a vehicle state estimator is necessary to estimate its own state (such as motion, orientation, behavior, and trajectory), as well as other vehicles. Localization can be part of the state estimator which estimates the vehicle pose (position and orientation). The estimator obtains the vehicle state estimates using information from onboard sensors (LiDAR, radar, camera, GPS, IMU, etc.) and communications (in-vehicle networks, wireless networks, etc.) through various theoretical approaches (Bayesian filtering, optimization, machine learning, etc.). This special issue focuses on vehicle state estimation and localization for the connected and autonomous vehicles. We welcome original research contributions and state-of-the-art reviews, from academia and industry. For more information, please click: mdpi.com/si/36581

Guest Editors

Prof. Dr. Kichun Jo

Department of Smart Vehicle Engineering, Konkuk University, 120 Neungdong-ro, Gwangjin-gu, Seoul 05029, Korea

Prof. Dr. Myoungcho Sunwoo

Department of Automotive Engineering, Hanyang University, Seoul 04763, Republic of Korea

Deadline for manuscript submissions

closed (19 August 2022)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/36581

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

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.

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

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 and Instrumentation) / CiteScore - Q1 (Instrumentation)