Special Issue

State Estimation for Mobile Robotics

Message from the Guest Editors

Robotic literature is often focused on advanced control strategies, and state estimation is often an afterthought when moving from simulation to experiment. This leads to many robotic platforms not being able to achieve their full potential. Typically, for a mobile robot, the state will include the position and velocity. Furthermore, it can include information such as joint forces and torques, center of masses, or even 3D maps. State estimation is the problem of estimating this state from sensor data and models. For most state estimation problems, there are no sensors that can directly measure them, and the sensors that can partially measure them are corrupted with noise. This Special Issue addresses all types of state estimation for mobile robotics.

Dr. Giuseppe Loianno

Dr. Guoquan Huang

Guest Editors

Dr. Geoff Fink

Dr. Claudio Semini

Dr. Giuseppe Loianno

Dr. Laurent Kneip

Dr. Guoquan Huang

Deadline for manuscript submissions

closed (31 May 2022)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/83676

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

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

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)