Special Issue

Sensors for Continuum, Soft and Compliant Robotics

Message from the Guest Editors

Soft and compliant robotics, with their exceptional flexibility and adaptability, excel in a multitude of intricate applications, such as navigating through unstructured environments, manipulating fragile objects, executing precise motion, and serving as deformable components in advanced space/aerospace systems. However, their nonlinear deformations and/or motion range limitations (such as in micromotion-compliant robotics) can make it arduous to comprehensively monitor the robots' kineto-static and dynamic states. This lack of accurate sensory feedback hinders enhancements in operational precision, comprehensive shape control, and the safety of robotic operation. This is therefore a critical bottleneck that demands innovative solutions. In light of this, our upcoming Special Issue of *Sensors* seeks contributions that highlight recent progress and ongoing challenges in sensor design, manufacture, and implementation for soft/compliant robotics as well as adaptive structures.

Guest Editors

Dr. Guangbo Hao

Dr. Jieyu Wang

Dr. Haitong Liang

Dr. Yinjun Zhao

Deadline for manuscript submissions

25 October 2025

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/196111

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

MDPI

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)