

Special Issue

Advances of Compliant Mechanisms in Sensors for Young Researchers

Message from the Guest Editors

As popular precision and robotic devices, compliant mechanisms deliver displacement, force and energy by elastic deformation of the materials. Such mechanisms generate smooth motion without the issues of wear, backlash, friction, clearance and are ease of monolithic manufacturing in contrast to traditional rigid-body mechanisms. Motion transmission is realized by flexure hinges, flexible beams, diaphragms, and other soft materials, etc. Targeting different engineering tasks, compliant mechanisms have been applied extensively in both actuator and sensor scenarios, ranging from macro-scale, to micro-scale and to nano-scale.

Exemplary applications include micro electro mechanical systems (MEMS), ultra-precision manufacturing, micro/nano-manipulation, precision automatic assembly, medical instruments, to name a few.

Guest Editors

Dr. Guangbo Hao

Dr. Fulei Ma

Dr. Mingxiang Ling

Dr. Haiyang Li

Deadline for manuscript submissions

closed (15 January 2023)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/131043

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
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 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)