

Special Issue

Soft Material Transducers

Message from the Guest Editor

In recent years, soft materials have shown an impressive development with remarkable applications in soft robots and wearable systems. They need reliable sensing and actuation mechanisms in order to act as smoothly as biological systems. In particular, such systems require soft tactile sensing and proprioceptive actuation for achieving safe interaction with the environment and/or the human body. However, the development of soft material transducers still present several challenges, in particular regarding: design and modelling, fabrication techniques, integration of sensing and actuation, low computational signal processing, smooth control. This Special Issue solicits papers that cover recent developments, demonstrations, and applications for soft material transducers and the enabling design methods and technologies.

Guest Editor

Dr. Massimo Totaro

Center for Micro-Biorobotics, Istituto Italiano di Tecnologia (IIT), 56025 Pontedera (Pisa), Italy

Deadline for manuscript submissions

closed (31 July 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/51776

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

mdpi.com/journal/

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)