



Tactile Sensing for Soft Robotics and Wearables

Guest Editors:

Dr. Lucia Beccai

Soft BioRobotics Perception Lab,
Istituto Italiano di Tecnologia, Via
Morego 30, 16163 Genova, Italy

Dr. Massimo Totaro

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

Deadline for manuscript
submissions:

closed (30 April 2018)

Message from the Guest Editors

In recent years, rapid developments in tactile sensing have mainly been due to the advent of novel deformable materials, mimicking skin flexibility and elasticity. In addition to single sensors, electronic skins built from both inorganic and organic electronic materials have boosted up, especially ultra-thin and ultra-conformable systems. However, many aspects require new concepts at component, as well as at system, levels. Today, new challenges emerge from soft robotic approaches and wearable systems, where the use of deformable sensors becomes crucial for encoding a variety of information that are not only provided by the external world, but also by the deformation of the hosting robot/human body. This Special Issue seeks to showcase research papers, short communications, and review articles on novel developments of soft tactile sensing, and mechanical sensing more at large. The focus is on new designs and models, new materials and fabrication processes, advanced signal processing and innovative machine learning algorithms that could be useful to target real applications in both in robotics and wearable systems.





an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

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, PMC, Ei Compendex, dblp, and other databases.

Journal Rank: JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Contact Us

Micromachines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/micromachines
micromachines@mdpi.com
[X@micromach_mdpi](https://twitter.com/micromach_mdpi)