



Medical Robotics: Advances, Applications, and Challenges

Guest Editors:

Prof. Dr. Guido Danieli

1. Calabrian High Tech - CHT S.r.l.
87036 Rende, CS, Italy
2. DIMEG, University of Calabria,
87036 Rende, CS, Italy

Prof. Dr. Carlo Ferraresi

Department of Mechanical and
Aerospace Engineering DIMEAS,
Politecnico di Torino, 10129
Turin, Italy

Dr. Carlo De Benedictis

Department of Mechanical and
Aerospace Engineering DIMEAS,
Politecnico di Torino, 10129
Turin, Italy

Deadline for manuscript
submissions:

closed (20 June 2024)

Message from the Guest Editors

Medical robots are becoming a fundamental part of health services. They can be designed for a number of different applications, of which we will quote just a few, not willing, however, to restrict the fields of papers to be presented.

Fundamental robots are those designed to be surgical tools to make the work of a surgeon safer and easier, but robotized equipment designed to perform particular exams of a patient, also being able to provide, as an output, a full description of the problems evidenced, is also important. Other important applications are related to rehabilitation tools that enable therapies aimed at recovering physical and cognitive functionals, as well as to assistive technologies that are required to support patients in performing daily activities. The usage of medical robots is also becoming more relevant due to the possibility to limit contact and improve sterilization in hospital scenarios, which have been proven to be even more critical aspects during COVID-19.

In any event, these robots are using all available technology or even inventing new technology; A.I. is also beginning to enter the field, with the aim of helping both doctors and patients.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)