



## 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,  
Politecnico di Torino, 10129  
Turin, Italy

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### **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.





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## 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

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*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
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