

## Special Issue

# Challenges and Future Trends of Wearable Robotics

### Message from the Guest Editors

Wearable robotics is becoming more and more present in our life. Main current challenges are in fact related to i) mechanical design, that should be as unobtrusive and comfortable as possible while guaranteeing an effective human-like motion, ii) actuation and sensing, that have to estimate motion intention and to realize the motion with high torque density and high energy efficiency, and iii) control, that has to guarantee high accuracy, reliability and co-adaptation. This special issue wants to outline the new advancements and challenges in the field of wearable robots paying particular attention to the hardware and software requirements for the deployment of wearable robots in the real world. Aspects related to sensing technologies, mechanical layout, control, acceptability, intuitiveness, clinical and daily use would be particularly considered.

### Guest Editors

Dr. Francesca Cordella

Dr. Emilio Trigili

Prof. Dr. Jan Babič

### Deadline for manuscript submissions

closed (20 March 2023)



## Sensors

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