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Challenges and Future Trends of Wearable Robotics

Guest Editors:

Dr. Francesca Cordella

Unit of Advanced Robotics and Human-Centred Technologies, Department of Engineering, Università Campus Bio-Medico di Roma, 00128 Rome, Italy

Dr. Emilio Trigili

BioRobotics Institute, Scuola Superiore Sant'Anna, Pisa, Italy

Prof. Dr. Jan Babič

Dept. of Automatics, Biocybernetics, and Robotics Jamova 39, 1000 Ljubljana, Slovenia

Deadline for manuscript submissions:

closed (20 March 2023)

Message from the Guest Editors

Dear Colleagues,

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.



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Special Issue



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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