Assistive and Rehabilitation Technologies Based on Intelligent Sensors

Guest Editors:

Dr. Andrea Tigrini

Dr. Alessandro Mengarelli

Dr. Federica Verdini

Dr. Ali Al-Timemy

Dr. Simone Ranaldi

Deadline for manuscript submissions:
1 December 2024

Message from the Guest Editors

Dear Colleagues,

The increase in the elderly population and rising prevalence of chronic conditions require advancements in assistive and rehabilitation technologies. Intelligent sensors play a pivotal role in the development of such technologies as they allow the patient to be monitored while offering the possibility of implementing smart control strategies for more fluent human–device interaction. This Special Issue aims to explore how intelligent sensors are being leveraged to create smarter assistive and rehabilitation devices.

The Special Issue welcomes contributions from the academic community in the following areas:

- Sensor-based technologies for balance maintenance, gait and physical activity assessment.
- Intelligent prosthetics and active orthotics.
- Embedded systems for rehabilitation monitoring.
- Human–computer interfaces and interactions for assistive technologies.
- Physical-based and data-driven solutions for assistive device prototyping

mdpi.com/si/200672

Special Issue

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

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us