

## Special Issue

# Machine Learning and Multimodal Sensing for Smart Wearable Assistive Robotics

### Message from the Guest Editors

Wearable assistive robotics technology has grown rapidly in recent years. Making use of multimodal sensing technologies and machine learning models provides the venue to develop smart assistive robots that can accurately understand the posture and activity of the human body. Furthermore, using multimodal information with novel machine learning models can allow the wearable robot to learn to adapt its performance (e.g., activity recognition and delivery of assistance) over time from interaction with the human body. Thus, this process has the potential to develop the next generation of wearable robots that can autonomously adapt and safely assist humans in ADL. The aim of this Special Issue is to contribute to the state-of-the-art and introduce current developments on machine learning models and multimodal sensing for decision-making, adaptability, interaction, and control of wearable assistive robotics. We encourage potential authors to submit contributions of original research, new development, experimental works, and surveys in the field of wearable assistive robotics.

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### Guest Editors

Dr. Uriel Martinez-Hernandez

Dr. Dingguo Zhang

Dr. Benjamin Metcalfe

Dr. Arturo Forner-Cordero

Dr. Hong Zeng

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### Deadline for manuscript submissions

closed (31 August 2021)



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*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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