Special Issue

Biosensors in Rehabilitation and Assistance Robotics

Message from the Guest Editors

Robotic developments in the field of rehabilitation and assistance have seen a significant increase in the last few years. The improvement of biosensing technologies provides robust ways of assessing the user's motor or cognitive intentions, which, combined with robotic therapies, leads to critical improvements in motor or cognitive function recovery. Recent advances in bioelectrical signal processing and acquisition devices, in computer-vision techniques and machine-learning, or in the kinetic and dynamic analysis of movement have a huge impact on the efficient development of the aforementioned robotic approaches. This Special Issue is focused on breakthrough developments in the field of biosensors applied to rehabilitation and assistive robotics. Papers should address innovative robotic solutions combined with the acquisition of biomechanical or cognitive information using a variety of techniques including electrophysiology, computer vision or motion tracking. Both review articles and original research papers are encouraged.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2022)

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/70048

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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