Special Issue

Sensors for Artificial Movement Control

Message from the Guest Editors

Hundreds of millions of people live with some kind of motor disability. Some devices have long been life-changing alternatives for these individuals, such as wheelchairs or prostheses. However, seldom do these solutions restore the level of independence an able-bodied person possesses.

Novel technologies are being developed to assist movement in individuals with motor deficiencies, such as active orthosis, exoskeletons and robotic prosthesis. In this context, acquiring reliable and useful information from these systems remains one of the critical issues in the field of assistive technologies. Embedding sensors able to inform controllers or users on the ongoing movement execution or on the forces and torques involved is not trivial. This is particularly true in real-life scenarios like rehabilitation clinics and patient daily lives. State-of-the-art studies indicate that current challenges also involve precise movement and force closed-loop control and user bio-feedback.

The purpose of this Special Issue is to present recent advances in sensor design and data processing techniques to provide information to users and controllers of assistive technology devices.

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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.

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