Special Issue

Integration of Advanced Sensors in Assistive Robotic Technology

Message from the Guest Editors

Assistive robotic technology has been shown to help people living with disabilities and older adults, by facilitating the execution of daily living tasks and increasing user independence. This includes but is not limited to wheelchair-mounted assistive robotic arms, mobile servants, exoskeletons, prosthetics, orthotics, movement assistance, mobility aids and intelligent wheelchairs. Advanced sensors have the potential to improve the performance of assistive robotic technologies. In the field of control interfaces, innovations at sensor level help users to communicate their desires more efficiently to use the device to its full potential. In the field of system intelligence, innovations at sensor level help assistive robotic technologies to better understand their environment and facilitate user task, for instance, by autonomously avoiding an obstacle. For this Special Issue, innovation in advanced sensors is defined by the development of new sensors, of existing sensors that are augmented by artificial intelligence, and existing sensors that are newly applied to assistive robotic technologies.

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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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