

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.

Guest Editors

Dr. Alexandre Campeau-Lecours

1. Department of Mechanical Engineering, Laval University, Quebec City, QC G1V 0A6, Canada
2. Centre for Interdisciplinary Research in Rehabilitation and Social Integration (Cirris), Quebec City, QC G1V 0A6, Canada

Prof. Dr. François Routhier

1. School of Rehabilitation Sciences, Université Laval, Quebec City, QC G1V 0A6, Canada
2. Center for Interdisciplinary Research in Rehabilitation and Social Integration, CIUSSS de la Capitale-Nationale, Quebec City, QC G1M 2S8, Canada

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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