Special Issue

Exoskeletons in Rehabilitation Applications: 2nd Edition

Message from the Guest Editor

In recent years, extensive research has been conducted around the world on wearable robots and orthotic devices that support the movement of lower limbs. Wearable robots are devices that constitute a new class of articulated mechanical systems. These particular types of robots operate in close contact with a human user. They are worn by an operator like a suit, and their kinematic structure is similar to a human limb. Wearable robots are called exoskeletons. Exoskeleton robots integrate sensing, control, and other technologies and exhibit the characteristics of bionics, robotics, information and control science, medicine, and other interdisciplinary areas. In this Special Issue, we collect research on the following topics, but not are limited to them:

- Gait studying and measurement;
- Rehabilitation exoskeleton robots;
- Multimodal information fusion;
- Algorithms for exoskeleton sensors and control;
- Exoskeleton sensory system;
- Applications in rehabilitation and operation assistance;
- Inertial sensors, resistive sensors, capacitive sensors;
- Flexible wearable sensor and e-skins;
- Multifunctional sensor array;
- Distributed sensory network.

Guest Editor

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Deadline for manuscript submissions

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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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