Special Issue

Sensor Technology for Improving Human Movements and Postures

Message from the Guest Editors

Sensor technology can be used to measure movements and postures. For example, sensors can be used to:

- Assist or encourage walking and prevent fall of older adults;
- Enable exoskeletal or robotic devices to improve mobility of people with neuro-musculoskeletal disorder;
- Detect sport-specific movements to improve sports performance and reduce risk of injuries;
- Improve occupational biomechanics and ergonomics.

Examples of sensors include accelerometers, gyroscopes, magnetometers, and force sensors. They can be wearable or laboratory-based. This Special Issue focuses on developments, uses, and/or outcome measurement of sensor technology, including wearable sensors with or without biofeedback, lab-based sensing systems for forces and motions, biorobotic sensors, and smart prosthetic and orthotic devices, which ultimately aim to improve human movements and/or sport performance.

- Wearable sensors;
- Robotic sensors;
- Motion analysis;
- Rehabilitation;
- Aging;
- Sports and injury.

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Message from the Editor-in-Chief

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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