Special Issue

Inertial Sensors for Clinically Relevant Mobility Outcome Measures

Message from the Guest Editor

In the emerging field of wearable technologies, gait and balance impairment in neurological diseases such as Parkinson's disease or Multiple Sclerosis have been quantified by inertial sensors. Wearable sensors allow investigation of gait impairments in real-life scenarios of patients, which is a major focus of recent research. Thus, sensors have the potential to detect intra- and inter-day variations of motor symptoms for gaining insights into real-life impairments of gait. The final goal is to correctly interpret daily-life gait patterns to improve the therapy and quality of life of patients.
This Special Issue will focus on clinically relevant mobility outcome measures provided by wearable technologies. Among others, topics in this Special Issue include the following:

- Objective parameters that reflect clinical outcomes;
- Sensor recordings in standardized settings or real-life scenarios;
- Inertial sensors used in clinical trials;
- Digital technologies that monitor gait or motor impairment;
- Usability aspects in neurological disease cohorts.

Guest Editor

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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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