Special Issue

Wearable Sensors for Assessment of Gait in Older Adults

Message from the Guest Editors

Assessment of gait and physical function have been traditionally carried out in dedicated laboratories using specialized motion capture equipment. Recent developments in wearable sensors and algorithms have made it feasible and cost-effective to measure gait and motor function over a prolonged period in a home, clinical or community setting. Wearable sensors have enormous potential in healthcare management as a means of facilitating ambulatory monitoring of physical function, over a prolonged period of time, particularly in older adults who are the biggest drivers of healthcare utilization.

This Special Issue aims to present a collection of recent advances in wearable sensor-based gait assessment in older adults, in particular assessment of gait, fall risk, physical and cognitive function, disease progression and the development of novel digital biomarkers.

Keywords:
- gait
- falls
- inertial sensors
- wearable sensors
- digital biomarkers
- neurological disease

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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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