Special Issue

Gait Analysis Based on Sensing Technology in Populations at Risk of Falls

Message from the Guest Editors

Analysis of a person's walking gait can provide many insights into their ability to control their centre of mass smoothly during ambulation. Gait patterns often become irregular or unstable in populations at increased risk of accidental falls, such as older adults or those with neurological conditions, due to declining sensory and motor function. Therefore, accurate assessment of gait stability and symmetry is important in both clinical and research settings that are focused on fall risk assessment and fall prevention. With the rate of development of gait analysis technologies, it is not always clear to clinicians and researchers which technologies will provide the most relevant and accurate gait information. Accuracy and repeatability are of utmost importance in clinical and research applications, particularly where the risk of falls is being assessed or the effectiveness of interventions for preventing falls is being evaluated. Therefore, it is the aim of this Special Issue to draw together the latest literature applying gait analysis technologies in populations at increased risk of falls.

Guest Editors

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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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