Special Issue

Sensors for Unsupervised Mobility Assessment and Rehabilitation

Message from the Guest Editor

Mobility deficits are common due to factors like aging, musculoskeletal issues, neurological disorders, and trauma. These impairments affect daily activities and quality of life. Traditional gait assessments in supervised settings (laboratories or clinics) may miss critical events occurring sporadically or over time. Advancements in sensor technology now enable ecological mobility assessments through continuous monitoring in daily environments. Unsupervised assessments enhance the detection of clinically relevant events and empower individuals by involving them in their care through personal devices like smartphones and wearables. This Special Issue explores innovations in sensors for unsupervised mobility assessment in rehabilitation. Potential topics include but are not limited to:

- ecological assessment methods in mobility
- unsupervised mobility assessment in aging populations and older adults
- wearable sensors and mobile health devices
- data processing and algorithms for unsupervised data
- remote monitoring and tele-rehabilitation systems
- patient engagement through personal sensing devices
- addressing challenges in data privacy and security

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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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