

Special Issue

Sensors and Emerging Measurement Technologies in Lower Limb Biomechanics and Rehabilitation

Message from the Guest Editors

This Special Issue explores new approaches and solutions that support the use of sensors and imaging technologies for foot health monitoring and rehabilitation. Innovative tools, such as smart insoles and socks, provide a potential to continuously monitor pressure distribution, perfusion, humidity, and temperature, which are crucial for managing conditions like diabetic foot complications. Wearable sensors, including accelerometers and pressure sensors, are commonly used in research to understand the impact of foot biomechanics and pathology on gait. Additionally, non-invasive technologies like thermal imaging, photoplethysmography, and hyperspectral imaging help visualize foot health and assess rehabilitation progress in conditions like diabetic foot ulcer healing. Portable medical imaging technologies, such as wearable ultrasound devices and, baropodometric platforms, have the potential to guide treatment and rehabilitation plans for conditions like plantar fasciitis.

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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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