

Special Issue

Wearable Sensors in Biomechanics and Human Motion

Message from the Guest Editors

This Special Issue aims to highlight recent advances in the use of wearable sensors in biomechanics and human motion research across diverse settings and populations. Wearable technologies, such as inertial measurement units (IMUs), electromyography (EMG), and pressure insoles, are transforming how we assess movement biomechanics in real-world environments. We invite contributions that explore methodological innovations, data processing algorithms, and applications of wearable systems in clinical, sports, occupational, or daily-life contexts. Topics of interest include, but are not limited to, the following: wearable sensor-based gait and posture analysis, motion tracking, joint kinematic and joint kinetic estimation, activity recognition, rehabilitation monitoring, injury prevention, and integration with machine learning or digital health platforms. Both original research and reviews are welcome. The goal of this issue is to provide a multidisciplinary forum for researchers, clinicians, and engineers to share cutting-edge research developments that advance the understanding and application of wearable sensor technologies in biomechanics and human movement science.

Guest Editors

Dr. Philippe Dixon
Dr. Clint Hansen
Dr. Jill Emmerzaal

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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