

Special Issue

State-of-the-Art Sensor Technology in Human Movement Analysis

Message from the Guest Editors

This Special Issue focuses on recent advances in sensor technologies and their applications in human movement analysis. The integration of wearable, optical, and environmental sensors has revolutionized the measurement of biomechanics, motor control, and performance across clinical, sports, and everyday settings. We seek contributions that highlight innovative sensor designs, multimodal data fusion, novel signal processing and machine learning approaches, and validation studies demonstrating accuracy and reliability in real-world conditions. Papers exploring translational applications—from rehabilitation and ergonomics to skill acquisition and human–machine interaction—are particularly encouraged. Both original research and comprehensive reviews are welcome. Through this collection, we aim to showcase cutting-edge methodologies and foster interdisciplinary dialogue on how emerging sensor technologies are shaping the future of human movement science.

Guest Editors

Dr. Adam J. Toth
Prof. Dr. Ross Anderson
Dr. Sarah Kraeutner

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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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