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Wearable Sensors for Human Movement Analysis Related to Biomechanics and Exercise Physiology

Guest Editor:

Prof. Dr. Wolfgang Potthast

Institute of Biomechanics and Orthopaedics, Clinical and Technological Biomechanics, German Sport University Cologne, Cologne, Germany

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Message from the Guest Editor

In all fields of wearable technology, the accuracy and validity of the sensors are key quality factors, but there are huge challenges in miniaturization, and problems with energy supply and exposure to physical influences such as vibrations, humidity, temperature changes or impacts. Research developments need to address those issues and find solutions. The use of machine learning and artificial intelligence is one approach.

The fusion of wearable technology for physiological–metabolic sensors and devices for biomechanical–movement analysis will allow for comprehensive analyses of human movement, performance potential and also injury risk as well as health status. A comprehensive analysis of human athletic activities cannot be performed with biomechanics or physiology in isolation but must integrate both fields of research. This Special Issue on “Wearable Sensors for Human Movement Analysis Related to Biomechanics and Exercise Physiology” will address both aspects to provide insights into current developments, opportunities and challenges.



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Special Issue



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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

Message from the Editor-in-Chief

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Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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