Special Issue

Wearable Sensors for Monitoring Athletic and Clinical Cohorts

Message from the Guest Editor

Wearable monitoring systems, also known as ‘wearables’, are wireless and include a sensor or sensor suite that is worn as an accessory or embedded in footwear or clothing. In combination with analytical software, wearable sensor technology enables the continuous and non-invasive detection of physiological (biosignal) and biomechanical (kinetic, kinematic) data. For athletic cohorts, data generated by wearables can be used by individual athletes, coaches, and support staff (trainers, physiotherapists, and sports medicine physicians) to quantify real-time physical demands with the aim of informing training strategies and screening for potential causes of musculoskeletal injury/re-injury. Whilst clinical applications have received far less attention, wearables hold considerable promise for expanding a range of patient-specific measures. As such, the utilisation of wearables in healthcare environments is expected to increase over the coming years. This Special Issue aims to present original research and review articles on recent advances, technologies, applications, and challenges in the field of wearable sensors used for athletic and clinical cohorts.

Guest Editor

Dr. Adam Leigh Bryant

Centre for Health, Exercise and Sports Medicine, Department of Physiotherapy, The University of Melbourne, Melbourne, VIC 3010, Australia

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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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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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