

Special Issue

Advanced Sensors in Biomechanics and Rehabilitation Applications

Message from the Guest Editor

This Special Issue will cover a wide range of topics, from wearable sensors and smart textiles to implantable devices and advanced imaging techniques. The research within will highlight the role of these sensors in capturing and quantifying biomechanical parameters such as joint angles, muscle activity, gait patterns, and forces exerted during movement. These measurements seek to provide valuable insights into the mechanics of the human body and help clinicians to make informed decisions regarding diagnosis, treatment, and rehabilitation planning. Topics of interest include, but are not limited to:

- biomechanics of shoulder and deltoid tension assessment
- biomechanics of knee after total TKR
- novel control valve design
- novel control theories
- smart prosthetic socket
- prosthetics and spine kinematics
- prosthetic eye technologies
- composite foot dynamics (elastic response to impulse)
- condition monitoring of rotating machinaries

Guest Editor

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About the Journal

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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