Special Issue

Advanced Sensing Technologies for Intelligent Wearables and Textiles

Message from the Guest Editor

This Special Issue, titled "Advanced Sensing Technologies for Intelligent Wearables and Textiles", aims to highlight the state-of-the-art sensing technologies for intelligent wearables and textiles, striving to provide our readers with a deeper understanding of their capabilities and future developments in this fast-evolving field. Intelligent wearables and textiles are now equipped with sensors that can monitor physiological parameters, such as heart rate, body temperature, and sweat composition, providing real-time data that can be used for health diagnostics, athletic performance optimization, and even early disease detection. These devices integrate functionality without compromising comfort or aesthetics. These textiles can respond to environmental and physiological changes, communicate with other devices, and harvest energy from the wearer's movements. We also explore the challenges in the commercialization of these technologies, such as durability, user acceptance, and regulatory hurdles.

- intelligent wearables
- smart textiles
- physiological monitoring
- flexible electronics
- health diagnostics
- tactile sensing
- energy harvesting
- embroidered sensors

Guest Editor

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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.

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