Special Issue

Intelligent Textile and Wearable Sensors: Research and Applications

Message from the Guest Editor

Textiles are rapidly evolving into intelligent platforms for sensing. Advances in conductive fibers/yarns, printed and embroidered electronics, flexible/soft transducers, and on-garment computing have facilitated the development of garments that unobtrusively measure mechanical, thermal, chemical, and electrophysiological signals. This Special Issue, “Intelligent Textile and Wearable Sensors: Research and Applications,” invites contributions across the full sensing pipeline: novel materials and transduction mechanisms; scalable fabrication (weaving, knitting, printing, coating, embroidery); system integration with power management, energy harvesting, and low-power wireless technology; signal conditioning, calibration, and multimodal data fusion; and field studies that address washability, durability, comfort, and user acceptance. Works leveraging machine learning and edge/IoT architectures for real-time inference are welcome, as are open datasets, benchmarks, and reviews.

Guest Editor

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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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