Special Issue

Continuous Monitoring: Implantable, Wearable and Remote Sensor Microsystems

Message from the Guest Editors

The advancement of sensing technologies is transforming how we address diagnostic and environmental challenges. By continuously tracking physiological, ecological, and ambient parameters, these systems enable proactive diagnostics, mitigation, and performance optimization. Leveraging breakthroughs in micro/nanofabrication, flexible substrates, and multimodal sensing, modern platforms deliver exceptional sensitivity, reliability, and long-term stability under dynamic conditions. Advances span from bio-MEMS devices and fiber-based wearables to contactless environmental sensors, showing how the field is expanding at an unprecedented pace. This Special Issue explores implantable, wearable, and remote microsensors and systems engineered for the uninterrupted monitoring of physiological and environmental metrics. Topics of interest include low-power hardware architectures, biocompatible interfaces, and nonintrusive designs that support seamless, long-term deployment in healthcare and environmental settings. We invite the submission of original research articles presenting novel sensor concepts and designs, system-level integration approaches, and real-world use cases.

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Editor-in-Chief

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