Special Issue

Soft Bioelectronic Sensors and Robotic Interfaces for Human-Centered Applications

Message from the Guest Editors

Advances in soft materials and flexible electronics are promoting the development of biointegrated sensors and robotic systems that can interface closely with the human body. This Special Issue focuses on the design of soft bioelectronic sensors and robotic interfaces that provide natural and seamless interaction with human users, supporting applications such as physiological signal monitoring, adaptive actuation, and intelligent feedback. We welcome original research on soft and stretchable sensors that capture diverse biosignals (e.g., EEG, EMG, PPG, SCG), wearable systems for continuous health monitoring, and conformable devices for robust human–machine interaction. Studies that address the application of soft actuators, biohybrid robotics, and closed-loop control strategies in rehabilitation, assistive technologies, and neuroadaptive systems are also of interest. We particularly welcome contributions that integrate signal processing, machine learning, and system-level design for applications in digital health, AR/VR environments, and brain–computer interfaces (BCIs).

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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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