Special Issue

Advanced Sensors and Sensing Technologies in Biomedical Signal Acquisition and Processing

Message from the Guest Editors

Advanced sensing technology is becoming crucial in many medical devices, including wearable devices. The widespread presence of these biomedical sensors has resulted in a huge quantity of recorded data, and the opportunities for new applications, particularly in the field of healthcare and biometrics, are increasing. Machine learning and deep learning techniques, among others, have been shown to be extremely successful in these types of applications, including, for example, detecting abnormal heart activity, monitoring blood oxygen levels, or analyzing body acceleration and movement. The analysis of physiological signals as a diagnostic tool has become, therefore, very valuable in several research areas, as it helps improve quality of life as well as helps assess the health of the population. The goal of this Special Issue is to highlight the recent advances in sensors and sensing technologies for physiological signal recordings, and all of the signal processing methods that can be applied to these kinds of signals (such as electrocardiogram, electromyogram, electrodermal activity signals, etc.).

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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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