Special Issue

Wearable Sensors and Signal Processing Technology for Digital Health Applications

Message from the Guest Editors

In the past decade, wearable devices that can be employed in digital health to measure physiological signals or parameters, such as in electrocardiograms, photoplethysmograms, blood pressure, and the saturation of peripheral oxygen, have been developed to monitor the physical or mental conditions of users in real time. However, these measurement environments are more complex than clinical practices. Moreover, users may be moving or active. Therefore, processing these signals remains challenging. Deep learning and machine learning have proven advantageous in speech processing, and ARM microprocessor cores have advanced significantly. This Special Issue focuses on the application of deep learning or machine learning to process the physiological signals measured by wearable devices and enhance their performance. Moreover, the proposed methods can be implemented on edge devices.

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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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