Special Issue

Biosignal and Motion Measurements

Message from the Guest Editors

Biosignal and motion measurements involve the acquisition, analysis, and interpretation of physiological and movement-related data taken from the human body. These measurements are essential in applications such as diagnostics, rehabilitation, sports science, and human–computer interactions, offering real-time data that aid in understanding, monitoring, and enhancing physical health and performance. Biosignals include electrical activity from organs (heart, brain, muscles, skin) measured through techniques like ECG (electrocardiography) EEG (electroencephalography), electromyography (EMG), and EDA (electrodermal activity) assessment, while motion measurements capture body movement patterns through accelerometers, gyroscopes, Inertial Measurement Units (IMUs), or other motion capture systems.

- Physiological monitoring;
- Human motion analysis (gait, hand gesture, etc.);
- Wearable sensors;
- Emotion detection and classification;
- Healthcare monitoring (computer-aided diagnostics, remote health system, etc.);
- Multimodal feature extraction and integration;
- Biosignal processing (ECG, EMG, EEG, PCG, PPG, BCG, etc.).

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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