Special Issue

Human Signal Processing Based on Wearable Non-Invasive Device: 2nd Edition

Message from the Guest Editors

The human body creates many different types of signals, which can be recorded in the form of photoplethysmograms, electrocardiograms, electromyograms, electroencephalograms and electrooculograms. These human signals play an important role in the diagnosis of disease. However, the workloads of medical personnel for interpreting these signals are colossal. In order to address this issue, automatic human signal processing is required. To process these human signals, signal denoising, feature extraction and classification or regression are usually required. To perform denoising, time frequency analysis approaches such as wavelet transform approaches, empirical mode decomposition approaches and singular spectrum analysis approaches are employed. To perform feature extraction, statistical approaches are employed. To perform classification or regression, neural networks or tree-based systems are employed. This Special Issue mainly focuses on proposing new methods for carrying out human signal processing and exploring new applications using human signal processing techniques.

Guest Editors

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