

Special Issue

Electrocardiogram (ECG) Signal and Its Applications

Message from the Guest Editor

The electrocardiogram (ECG) is used to investigate some types of abnormal heart function, including arrhythmias and conduction disturbances, as well as heart morphology. The classification of ECG signals plays an important role in the diagnosis of heart diseases. In addition, biometrics using the ECG have been successfully performed recently. The variation of ECG signals has unique characteristics, because humans have physically different body shapes. Thus, it is advantageous for security, because the heart-generated signal is concealed inside the body.

This Special Issue is concerned with signal processing, classification, and interpretation from ECG signal information. Furthermore, it includes ECG biometrics (user recognition and authentication) and applications based on deep learning or computational intelligence.

Keywords:

- ECG signal classification
- ECG biometrics
- ECG signal processing
- ECG interpretation
- ECG signal augmentation
- ECG application using deep learning
- ECG application using computational intelligence

Guest Editor

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