

Special Issue

Motion Analysis in Biomedical Engineering

Message from the Guest Editors

Biomedical signal processing involves acquiring and preprocessing physiological signals and extracting meaningful information to identify patterns and trends within the signals. Sources of biomedical signals include neural activity, cardiac rhythm, muscle and skeleton movement, and other physiological activities. The Special Issue concerns the new methods of analysis of human motion treated as a biomedical signal. Depending on the acquisition method, time series may encode motion in the form of orientations, positions, accelerations, or angular velocities in 3D. Combined with other biomedical signals, which are more and more easily accessible through wearable devices, it can be an essential source of information on the psycho-physical condition during daily life activities. This is an interdisciplinary and fast-developing field with wide and promising biomedical applications, human–computer interfacing, and surveillance systems for monitoring human behaviors as well as analysis of biomedical signals for diagnosis and rehabilitation applications.

- Biomedical signals
- Wearable devices
- Human motion analysis
- Artificial intelligence (AI)

Guest Editors

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