



Wearable Electronics for Assessing Human Motor (dis)Abilities

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Message from the Guest Editors

The study of human postural, gesture, and gait control systems has a great impact in rehabilitation, sports, and medicine, especially for a concrete objective support to the diagnosis and follow-up, related to diseases involving a reduction in balance and motion abilities.

Electronics can implement, among others, electromyography (EMG, to provide information on muscular activity), inertial measurement units (IMU, to supply information on movement, velocity, rotation and orientation of body segments), flex sensors (FS, to determine angular values of human joints), etc., as wearable systems.

Proper electronic treatment of signals, acquired by means of wearable systems, for noise and artifact removal, together with smart algorithms and statistical techniques for data processing and parameter extraction, allows optimum signal representation. The combination of such signals results in a more informative content in that domain for the application at hand. Topics of this special issue include but not limited to:

- Electromyography
- Inertial sensors
- Electronics for sensor fusion
- Wearable sensor system
- Analysis of balance and motion ability and disorders





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Message from the Editor-in-Chief

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