Special Issue

EMG Sensors and Applications

Message from the Guest Editors

The electromyogram (EMG) signal is a biological signal produced by muscles throughout the human body when contracted and represents neuromuscular activity. Impressive advancements have been made in EMG signal processing and pattern recognition over the past several decades. This has greatly increased the number of potential applications for the use of EMG, including but not limited to, powered upper-limb prostheses, electric power wheelchairs, human-computer-interactions, and diagnoses in clinical applications. The aim of this Special Issue is to bring together leading active researchers in the development of EMG sensors and their applications. Works on innovative EMG signal processing and machine learning algorithms aimed at addressing critical issues related to this new generation of EMG sensors are also encouraged.

- Electromyography (EMG)
- Surface electromyogram (sEMG)
- High-density surface EMG (HD-EMG)
- Wearable sensors
- EMG feature extraction
- EMG pattern recognition
- Gesture recognition
- Muscle-computer interface
- Myoelectric control
- Prosthetics

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Deadline for manuscript submissions

closed (1 December 2019)

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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