Special Issue

EMG Sensors and Signal Processing Technologies

Message from the Guest Editors

There has recently been rapid technological progress in EMG sensor and measurement technology, as well as in the development of advanced signal processing methods. Most notably, the development and deployment of high-density EMG sensors and recording systems, and the application of deep learning and artificial intelligence (AI) methods have underpinned advances in EMG-based force prediction, understanding neural control of movement, neurorehabilitation research, and the use of EMG in clinical applications. We invite original research and review article on the use of advanced EMG sensing technologies and processing techniques to expand our understanding of muscle function and for clinical and nonclinical applications for submission to this Special Issue. Potential topics include but are not limited to:

- EMG-based force and movement estimation
- EMG in myoelectric control
- EMG in gait analysis
- EMG quality analysis
- Muscle synergy analysis and applications
- Pelvic floor muscle EMG and applications
- EMG in neurorehabilitation
- EMG in biomechanics
- EMG in ergonomics

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2024)

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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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