Special Issue

Electromyography (EMG) Sensor and System

Message from the Guest Editors

Electromyography (EMG) is based on the measurement of the electrical activity of the muscles and nerves in the human body. The EMG electrical signal, acquired on the surface of the skin, is the result of muscle movement activity and provides a wealth of information on the movement generated. This type of biosignal is widely used in a variety of fields of science. Periodic monitoring of EMG signals can be used to detect diseases and to prevent problems such as heart attacks or strokes. In addition, the study of the biomechanics of human movement and biometric identification may be useful in detecting neuromuscular disorders. The field of human–machine interaction (mechanical actuators) can also benefit from the use of biosignals, and so can the field of computing due to the development of muscle–computer interfaces (immersive environments, video games, electronic devices or the control of robotic devices or "bionic" limbs).

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