Signal Processing in the Planning and Execution of Human Movement

Guest Editor:

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Deadline for manuscript submissions:
closed (15 December 2021)

Message from the Guest Editor

Dear Colleagues,

The human body contains an abundance of degrees of freedom that must be coordinated and managed to produce coherent motor skills. In the last century extensive research on the physiological aspects of motor control has been performed. However, the signal processing aspects of the neural mechanisms have not been fully explored. The aim of this special issue is to gather latest research elucidating signal processing aspects of motor control in humans.
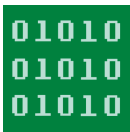
Keywords:

- Myoelectric and neural signal processing
- Neural processing of proprioceptive signals
- Cortical and spiking neural networks
- Decoding of motor neuron signals
- Real-time pattern recognition in myoelectric signals
- Sensorimotor information processing
- Noise in sensorimotor systems
- Decision making in sensorimotor system
- Sensory integration for motor control
- Stochastic neural processing
- Signal processing in motor cortex and brain stem
- Distributed processing of movement signaling
- Neural ensemble processing

We kindly invite to you to contribute to this Special Issue!

Kamran Iqbal
Guest Editor

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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