



Advanced Sensors/Devices for Functional Electrical Stimulation Systems

Guest Editors:

Prof. Dr. Milos Popovic

Toronto Rehabilitation Institute,
Toronto, ON, Canada

Prof. Dr. Samuel C.K. Lee

Department of Physical Therapy,
University of Delaware, Newark,
DE, USA

Prof. Dr. Kei Masani

Toronto Rehabilitation Institute,
Toronto, ON, Canada

Deadline for manuscript
submissions:

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Message from the Guest Editors

Dear Colleagues,

In 1961, Dr. Wladimir Theodore Liberson first defined the term “functional electrotherapy” to describe the application of electrical stimulation to skeletal muscle to activate the ankle dorsiflexors during hemiplegic gait. Since Liberson’s novel application, FES has been used for myriad patient populations and for various applications, ranging from gait and breathing assistance to bladder control. Likewise, FES devices have advanced with miniaturization, sophisticated control systems, multiple channels, implantable devices, electrode development, and the use of sensors with control systems to regulate stimulation delivery. For this Special Issue, we invite manuscripts that advance sensor and device development for FES systems and clinical studies demonstrating the efficacy of FES systems using wearable devices in clinical populations.

Keywords:

- functional electrical stimulation (FES)
- wearable sensors
- functional orthosis
- implantable devices
- electrode design
- brain-computer interface
- rehabilitation
- neuroplasticity





sensors



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
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