

## Special Issue

# Orthopaedic and Rehabilitation Engineering

### Message from the Guest Editors

Rehabilitation Engineering and Orthopaedic Engineering are diverse fields and include, among others, multi-scale studies on the mechanical function of the musculoskeletal system under normal and pathological conditions. Contributions may, though not exclusively, include the following topics:

- Motion biomechanics and human postural stability throughout normal development and aging and in various pathological conditions;
- Restoration or augmentation of function in handicapped muscles by means of functional electrical stimulation (FES);
- Musculoskeletal interactions in able-bodied and disabled human individuals; effects of fatigue (central or peripheral) on the ability of the musculoskeletal system to protect the bones and joints from impact loading; EMG signals;
- Neuromuscular redundancies and mechanical indeterminacies in the human body and their implications in the fields of rehabilitation and orthopaedic medicine;
- Optimization of load distribution in artificial joints and orthopaedic implants.

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### Guest Editors

Prof. Dr. Joseph Mizrahi

Department of Biomedical Engineering, Technion–Israel Institute of Technology, Haifa 3200003, Israel

Dr. Oron Levin

Movement Control and Neuroplasticity Research Group, Department of Movement Sciences, KU Leuven, Leuven, Belgium

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### Deadline for manuscript submissions

closed (31 December 2019)



## Applied Sciences

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*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

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