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Orthopaedic and Rehabilitation Engineering II

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Deadline for manuscript submissions:

closed (15 March 2021)

Message from the Guest Editors

Dear Colleagues,

We invite you to contribute to a Special Issue of the journal Applied Sciences, "Orthopaedic and Rehabilitation Engineering II". Contributions may, though not exclusively, include the following topics:

- 1. Motion biomechanics and human postural stability throughout normal development and aging and in various pathological conditions;
- 2. Injury biomechanics due to workplace conditions, or athletic extreme activity;
- 3. 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 orthopedic medicine;
- 6. Optimization of load distribution in artificial joints and orthopedic implants.

Prof. Dr. Joseph Mizrahi Dr. Oron Levin Guest Editors











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Editor-in-Chief

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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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