Special Issue

In-Silico Methods in Musculoskeletal Biomechanics and Biotribology

Message from the Guest Editor

Nowadays, in silico approaches in biomechanics constitute an exciting research area devoted to the possibility of using computer simulations in the description of the mechanical behavior of biological systems with particular reference to their movement, structure, and biotribological interactions. This Special Issue aims to collect the latest advances in musculoskeletal biomechanical and biotribological modeling in order to allow the scientific community to move toward computer modeling and then in silico investigations. This Special Issue will cover principally the following topics:

- Biomechanics of the musculoskeletal;
- Mechanics of hard and soft tissues;
- Dynamic modeling of human motion;
- Biotribology of natural and artificial human synovial joints;
- Mechanics of bones and joints;
- Tribological behavior of biomaterials;
- Modeling of biomechanical data uncertainty.

Guest Editor

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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.

Editor-in-Chief

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