Special Issue

Musculoskeletal Models in a Clinical Perspective

Message from the Guest Editor

Musculoskeletal modelling is becoming a tool for better investigating muscle functions and their alterations. The possibility to perform dynamic simulation and go deep into force distribution among muscles, ligaments, bone surfaces, provides a unique opportunity to understand neuromotor control mechanisms, and the role of these anatomical structures. Furthermore, the results of changes in the musculoskeletal system can be predicted, as well as the effects of surgical rearrangements. This could be of particular interest for treatments like tendon transposition, neurosurgery of peripheral nerve, treatment of spasticity, ligaments reconstruction, and joint arthroplasty. This Special Issue will highlight possible clinical applications of musculoskeletal dynamic models, either in terms of knowledge improvement or in terms of practical use for treatment planning and outcome validation. Assoc. Prof.

Guest Editor

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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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