Special Issue

Advanced Imaging in Orthopedic Biomechanics

Message from the Guest Editors

Recent advancements in medical imaging, such as weight-bearing and dual-energy computer tomography, 3-5 Tesla magnetic resonance devices, and elastography, produce high-resolution visualization, high speed of accusation under functional conditions, reduced radiation, and decreased cost. These and other, similar factors have made advanced imaging techniques not only popular as clinical diagnostic tools but also an integral part of many orthopedic biomechanics research studies. Numerous examples of this exist, including image-based personalized surgical planning, development of high-fidelity computer models, computer-aided surgery, personalized implant design and development, functional-imaging-based diagnosis, biomechanics-inspired advanced imaging techniques, and advanced 3D printing applications. You are invited to contribute original research papers, methodological advances, mini-reviews, and perspective articles. Articles on both advanced imaging in orthopedic biomechanics or innovative applications of conventional imaging methods in orthopedic biomechanics are welcomed.

Guest Editors

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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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