Special Issue

Recent Developments and Applications in Tissue Mechanics and Tissue Engineering

Message from the Guest Editor

Tissue mechanics and tissue engineering are multidisciplinary and interconnected fields, studied at multiple scales by integrating the knowledge in biology, solid mechanics, fluid dynamics, finite element modeling, imaging, electronics, automation, and design. Experimental, computational, and combined approaches are often used to investigate the structure–function relationships in tissues and to understand how their mechanics and biological pathways are altered in injury, disease, and regeneration.

The objective of this Special Issue is to present recent methods to investigate tissue mechanics or tissue engineering, or combined research between the two fields. These methods may include novel approaches such as recent technologies, new experimental setups and protocols, or novel combined experimental-numerical methods, applied to extensively studied tissues or established techniques applied to unusual tissues or tissue-engineered constructs.

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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