



Bone Biomechanics: Diseases, Treatment and Rehabilitation II

Guest Editor:

Prof. Dr. Redha Taiar

Department of Physical
Education and Sports (EPS),
University of Reims Champagne-
Ardenne, 51100 Reims, France

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Message from the Guest Editor

Biomechanics is a discipline concerned with the application of the tools, methods, and formalisms of mechanics and automation aiming to study human movement. By dealing specifically with the biological aspects of humans in motion, this discipline concerns the kinematic, mechanical, and control aspects of posture and movement. Biomechanics permits the estimation of human capacities by using the principles of mathematics, functional anatomy, and mechanics to explore and understand biological problems. The advantage of this discipline is that it requires understanding the musculoskeletal system to improve its potential. Taking into account personal factors offers the possibility to choose a particular solution allowing for the optimization of human mechanics. The aim of this Special Issue is to quantify the methodological advances in osteology in clinical situations. This Special Issue is concerned with studying and analyzing biomechanical contributions; bone diseases, including fractures; the interactions between bone and other organ systems, including cartilage, muscle, neurons, joints, and the spine; bone biomaterials; and prostheses.

