Special Issue

Application of Biomechanical and Artificial Intelligence Tools in Prevention and Diagnosis of Musculoskeletal Impairment

Message from the Guest Editors

This Special Issue will focus on the prevention and diagnosis of musculoskeletal impairment by utilizing advanced biomechanical tools and AI applications. Authors are kindly asked to submit original manuscripts or reviews related to either the prevention or diagnosis of musculoskeletal impairment by applying biomechanical tools, AI, or a combination of the two. Papers can include but are not limited to any kind of upper or lower limb injury or pathology (i.e., total knee or hip arthroplasty, ligament tears or reconstructions, ankle sprain, running related injuries, exercise-induced muscle damage, osteoarthritis, osteoporosis, stroke, myopathies, etc.). Under the umbrella of AI can be included machine learning (ML) and other types of data analytics techniques that, either standalone or combined with advanced biomechanical tools, can provide comprehensive solutions for the prevention and diagnosis of musculoskeletal impairment.

Guest Editors

Dr. Themistoklis Tsatalas

Prof. Dr. Dimitrios Katsavelis

Dr. Christos Kokkotis

Deadline for manuscript submissions

closed (29 February 2024)

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

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