Special Issue

Recent Applications of Computer-Assisted Technologies in Sports Medicine and Rehabilitation

Message from the Guest Editor

Diverse aspects of movement, measurement of strength, assessment of dexterity, precision, and coordination, motor learning, physiological response to effort, and detection of individual traits may be used in sport to set realistic goals, optimize training, and detect limitations and errors. The common ground of sports medicine and rehabilitation is the diagnosis, therapy planning, and evaluation of rehabilitation processes. Realization of these goals should exploit the ever-increasing stream of data from multisensor measuring systems, both external and body-bound, providing objective, reliable, and precise information. The sheer amount of data practically precludes any efficient analysis of raw data by a researcher, and a variety of computer-assisted technologies must be applied to extract information. Furthermore, multimedia transmission allows gaining field data and setting supervised remote training or rehabilitation exercises. Virtual reality and gaming may add much wanted attractiveness to often onerous daily exercises.

We invite researchers active in this vast and growing field to share their experiences, both as original research papers and as reviews and concept papers.

Guest Editor

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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.

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