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Symmetry Application in Motor Control in Sports and Rehabilitation

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Message from the Guest Editors

Dear Colleagues,

Symmetry is a core yet controversial concept in health sciences and entangles many disciplines ranging from anatomy to pathophysiology. In recent years, there has been a renewed interest in investigating the role of symmetry regarding biomechanical or functional aspects of people with health conditions affecting the nervous and musculoskeletal systems. Albeit easily recognized using subjective methods, the objective quantification of body (as)symmetry-be it structural or functional-is still challenging. The effects of symmetry (e.g., body posture alignment, sidedness, bodyweight distribution, and muscle activity) on the postural control, activities of daily living, and sports performance is poorly understood, and to what extent are interventions for primary, secondary, or tertiary care targeting the body symmetry able to prevent injuries or promote a functional improvement? This question highlights promising research topics in the field.

The aim of the present Special Issue is to emphasize the phenomena related to symmetry applications in biomechanics, sports, and rehabilitation.









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Editor-in-Chief

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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