



Motion, Gait Analysis and Asymmetry

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Message from the Guest Editor

Dear Colleagues,

Scientists and clinicians are interested in the establishment of symmetry at the whole-body scale, as well as within individual characteristics. Symmetry is often difficult to establish in real-world interactions. For example, compensatory asymmetries in movement science have been extensively studied between healthy subjects and individuals with pathologies. However, there is conflicting evidence within various tasks, individual variations, and other unknown factors. Even in ergonomic studies where only right-handed individuals were included, results suggest a more protective approach for doing a task that may not apply to left-handed workers. It is critical to pay attention to functional asymmetries, gait analyses, and asymmetries in the neuromusculoskeletal system. Research is needed in order to generate new knowledge and apply it to practical phenomena that would enhance our understanding in both foundational science and the arts. The aim of the present Special Issue is to provide evidence of the phenomena that lie at the crossroads of dynamic motions, gait analyses, motor control, and the asymmetry of functional consequences to implement rehabilitation.





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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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