

Special Issue

Hand and Wrist Biomechanics

Message from the Guest Editors

The high complexity of the hand enables humans to carry out a huge variety of activities providing them with functional independence. Deep knowledge of healthy hand behavior, from grasping biomechanics to complex manipulation in daily life activities, both from its kinematics and from muscle activation comprehension, is a challenging field. This Special Issue invites biomechanical researchers to provide contributions on:

(i) studies that improve the biomechanical understanding of the healthy human hand and wrist; and
(ii) studies applied in different fields (robotics, health, ergonomics) that use biomechanical parameters of the healthy human hand and wrist as a gold standard: to improve humanoid robotic hands and hand prostheses; to be checked against same parameters in certain pathologies for the better understanding of the functional limitations that they produce; or in ergonomic designs of assistive products or assistive hand exoskeletons for people with disabilities, as well as hand exoskeletons for rehabilitation or to assist improving the workplace.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2023)



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About the Journal

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.

Editor-in-Chief

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