Special Issue

Computer Vision Methods for Motion Control and Analysis

Message from the Guest Editors

Computer vision, a multidisciplinary field combining computer science, artificial intelligence, and signal processing, plays a critical role in modern technological advancements. It focuses on enabling machines to interpret and understand the visual world, mimicking the capabilities of human vision. One of the applications within this domain is motion control and analysis, which involves the detection, tracking, and interpretation of movement in visual data. This rapidly evolving field combines advanced image processing techniques with machine learning algorithms to extract meaningful information from visual data, enabling precise motion tracking, interpretation, and control. This research area is fundamental to a wide array of applications, including robotics, industrial automation, autonomous vehicles, healthcare, sports analytics, and human–computer interactions.

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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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