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Special Issue Reprint

Biomechanics and Motion Analysis

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Research in the field of biomechanics and motion analysis has seen rapid growth in recent years. Such research enhances our understanding of normal human posture and locomotion, pathological movement, physical disorders, and human-environment interaction, while also facilitating the development of targeted sports and rehabilitation approaches. Advancements in technology now enable researchers to apply state-of-the-art systems, devices, and algorithms across a broad spectrum—from external body movement to internal cellular response, from controlled lab settings to outdoor environments, and from bench experiments to clinical applications.
This Special Issue focuses on recent research and developments in biomechanics and motion analysis. Topics of interest include, but are not limited to: upper-limb and lower-limb biomechanics, spinal biomechanics, motion capture and analysis, interface biomechanics, shear force and pressure in ergonomics, computational orthopedics, physical ergonomics, sports engineering, rehabilitation engineering, human-environment biomechanical interaction, postural stability, balance and gait control, computer vision algorithms for motion analysis, artificial intelligence (AI) in biomechanics and motion capture, motion tracking and detection, and wearable devices for biomechanical and motion analysis.

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