Special Issue

Human Motion Perception for Intelligent Systems Awareness and Robotic Control

Message from the Guest Editors

In this Special Issue, the goal is to explore and disseminate novel and creative approaches to extract meaningful information from voluntary and involuntary motions of the human body, based on the applications, and incorporate them to advanced intelligent systems in an ethical way, as well as map future directions and identify knowledge gaps. The scope includes, but is not limited, to the following:

- Computer vision for joint detection
- Novel methods for modelling the human body
- Novel sensors/methods to perceive motion
- AI systems for semantic perception of motion
- Deep-learning methods for motion prediction and intention classification
- Intelligent control of prostheses
- Control of supernumerary robotic limbs
- AI-powered personalized rehabilitation/performance analysis
- Collaborative robots (cobots)
- Haptic interfaces

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