Special Issue

Applications of Computer Vision and Smart Sensors Technology in Rehabilitation

Message from the Guest Editors

Dear Colleagues: Occupational and physical therapy provide therapy to rehabilitation patients with cognitive and motor impairments due to trauma and diseases. They require some form of professional monitoring of the patient's movements throughout therapy, as well as the assessment of performance and provision of feedback. This process is time-consuming for medical and allied health professionals, and often requires either continued hospitalization (in-patient) or recurring visits by the patient (ambulatory or out-patient). The goal of computer-enhanced methods in the field of rehabilitation is to reduce the load on the professional while maintaining effective, personalized patient rehabilitation. AR/VR-based exercises enable the rehabilitation system to generate more engaging cognitive-motor tasks, which can be specifically tailored to the patient's abilities and interests. This Special Issue focusses on the application of state-of-the-art, computer-based technologies for rehabilitation, including (but not limited to) wearable sensors, machine vision, remote monitoring, adaptation and personalization technologies applied to rehabilitation.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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