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IECBES 2014, Conference Proceedings - 2014 IEEE Conference on Biomedical Engineering and Sciences: "Miri, Where Engineering in Medicine and Biology and Humanity Meet"

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A gaming-based system for stroke patients physical rehabilitation (Conference Paper)

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Abstract

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The goals of rehabilitation are to improve function and gain as much independence as possible. As stroke attacks effect differs from person to person the type of rehabilitation would be unique. This paper looks into both independent physical and recreational therapy for a stroke patient using gaming based system, focusing on the Kinect sensor. The focus here is to investigate on how the gaming based system is able to reduce a patient dependency on the physiotherapist and increase their motivation and enthusiasm to continue their rehabilitation routine. By introducing gaming based rehabilitation, home therapy can be done in much pleasant way. Staying in home is less troublesome to the patient and therefore more conducive to a successful recovery. This paper concentrate on preliminary development of rehabilitation assisted game for arm area based on Kinect sensor. © 2014 IEEE.

Indexed keywords

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