

Conférences scientifiques du CRIR

Centre de recherche
interdisciplinaire
en réadaptation
du Montréal métropolitain

Virtual rehabilitation for elderly people and neurological patients

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José Eduardo Pompeu is a Professor at the Department of Physical Therapy, Faculty of Medicine, University of São Paulo, Brazil. He is a physical therapist who obtained his MSc and PhD in Neuroscience and Behavior at the University of São Paulo. His research is focussed on the rehabilitation of balance and gait in the elderly and in patients with neurological diseases using new tools like virtual reality (VR) and video games. He is the coordinator of the "Laboratory of aging and functioning" (LETEFE) of the University of São Paulo. He is also a professor of the postgraduate programs of "Rehabilitation Sciences" and "Neurosciences and Behaviour" at the University of São Paulo.

The aim of this presentation is to discuss the studies of the clinical use of commercial video games and virtual reality systems in the rehabilitation for neurological patients (post-stroke and Parkinson's disease) and elderly people (robust and frail elderly). Two new systems developed in Brazil by researchers of the University of Sao Paulo will be presented. The first one is a system for motor-cognitive training using an immersive VR environment and the Kinect sensor. The other one is a low-cost system for the assessment of spatial orientation of elderly people.



Tuesday March 27, 2018
from 12:00 to 1:00

CISSS de Laval
Hôpital juif de réadaptation|
Jewish Rehabilitation Hospital
Salle du conseil|Boardroom B-1131
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Visioconférence

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