Joint Event on
Neurology & Brain Injury
March 14-15, 2019 | Paris, France

Serlet Sebastien
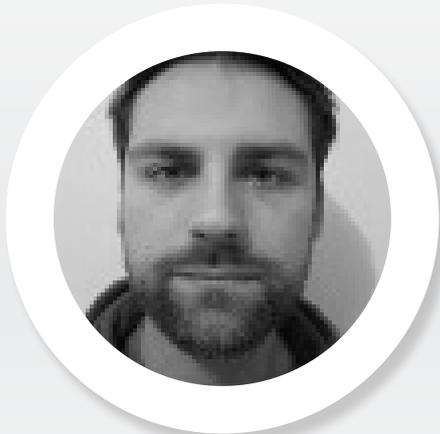CRCN - Universite Libre de Bruxelles
Belgium

R.O.G.E.R create your own scenario for rehabilitation or evaluation in virtual reality

R.O.G.E.R (realistic observation in game and experiences in rehabilitation) is virtual reality software. It was developed by a video game company (Fishing Cactus), in collaboration with researchers in neuropsychology (University of Brussels) and neuropsychologists (ERASME Hospital). The purpose of this software is to gather cognitive assessment scale and rehabilitation into a virtual house. This software can be used in cognitive laboratories or rehabilitation services (i.e. neurology) by several therapists (neuropsychologists, physiotherapists, speech therapists, occupational therapists, etc.). It is also possible to combine the software with physiological measurements which can record and analyze data during each session (eye-tracker, electrodermal activity, and electro-encephalogram). Thus, we can obtain precise measurements and guarantee the standardization of the evaluation. The R.O.G.E.R. software offers the possibility for patients to evolve in a safe environment (a complete house with 10 rooms, a garden and 300 objects), and the graphic quality enable a complete immersion and easier transfers in real life situations. The software integrates an ergonomic scenario editor, which does not required sophisticated computer programming knowledge. The scenario editor enables therapists and researchers to create personalize scenarios for each patient. R.O.G.E.R promises a graphic quality, accessible for all therapists and neuroscientists, and offers the possibility to work with all cognitive functions and to provide new data for the clinical and the research field.

Biography

Serlet Sébastien has completed his Master's degree in Neuropsychology in 2017 at the SCALab laboratory (University of Lille, France) under the direction of Y Coello. He was Clinician at ERASME Hospital in Brussels, where he discovered the R.O.G.E.R project. In 2018, he proposed the creation of the spin-off and received funding in November to develop the program. He is now In-charge of this project at the CRCN (Center for Research in Cognition and Neurosciences with A. Cleeremans) in Brussels.

sebastien.serlet@gmail.com

Notes: