

Virtual reality in neuro-psycho-physiology - cognitive, clinical and methodological issues in assessment and rehabilitation

IOS Press - Frontiers



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Aleksandur I, Prince of Bulgaria, 1857-1893.
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Pendlebury ST, Mariz J, Bull L, Mehta Z, Rothwell PM. Although it would be relevant to have complementary information with a real-world assessment in a supermarket, pharmacy, post-office and bank, unfortunately this required logistics that could not be implemented for this study.

Virtual Reality in Neuro

The key issue was to integrate knowledge of clinical therapy and psychological principles related to human factors into the design of virtual environments. The remaining four chapters discuss specific applications of virtual reality: for the treatment of Autism Chapter 5 by Strickland, for the palliative care of cancer Chapter 6 by Oyama, for the treatment of body image disturbances Chapter 7 by me and Melis and to diagnose and treat patients with psychological and psychiatric difficulties Chapter 8 by Hirose, Kijima, Shirakawa and Nihei. The mental state of a patient in the terminal stage of cancer changes step by step from denial of cancer, hope for a new treatment for cancer, suspicion of medical treatment, uneasiness regarding their future life, irritation, depression, and acceptance or despair.

Benefits of virtual reality based cognitive rehabilitation through simulated activities of daily living: a randomized controlled trial with stroke patients

Internal consistency and test-retest reliability of the SIS 3. Virtual reality for stroke rehabilitation. The two chapters provide basic definition and background material which thus sets the stage for future chapters.

[PDF] Cybertherapy

Another important feature of this technology is the potential impact of the VR experience.

CiteSeerX — Virtual Reality and Cognitive Assessment and Rehabilitation: The State of the Art

Methods The VR-based intervention involved a virtual simulation of a city — Reh City - where memory, attention, visuo-spatial abilities and executive functions tasks are integrated in the performance of several daily routines. We have found significant improvements in attention, memory and visuo-spatial abilities for the experimental group. The first modality, related to clinical studies, involves the evaluation of a clinician through using structured or unstructured interviews ; the second one provides a discrepancy measure between the self-report of the subject and that of a caregiver through questionnaires that investigate an aspect of functioning of the patient ; ,.

Benefits of virtual reality based cognitive rehabilitation through simulated activities of daily living: a randomized controlled trial with stroke patients

No differences between groups were found with the Mann-Whitney test Table. Further, when stroke survivors suffer of hemiparesis in their dominant arm, this interferes with their ability to perform paper-and-pencil tasks, which in turn may impede cognitive training.

[PDF] Cybertherapy

Chapter 4, written by me, describes the context of current psychological assessment and underlines possible advantages of a VR based assessment tool.

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Comparing VR and control interventions, in terms of global cognitive functioning, as assessed with the ACE and the MMSE, only the experimental group improved significantly from pre to post-intervention.

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