

Special Issue

Effects of Virtual Reality on Cognitive Rehabilitation

Message from the Guest Editors

Virtual rehabilitation (VR) is described as the use of virtual reality for cognitive rehabilitation of cognitive impairments. Traditional behavioral methods for cognitive rehabilitation are challenged by the need of transfer of training outcomes to daily life functioning. VR offers several advantages by contextualizing treatment in daily living activities in fully immersive, realistic, and multimodal enriched environments. Therefore, we will be looking for high-quality research on the following topics related to VR implementation for research and clinical settings:

1) Design elements that contribute to feasibility of virtual rehabilitation:

- a) Serious games elements useful for improving patient motivation;
- b) Multimodal feedback;
- c) Avatar therapy;

2) Clinical outcomes on the efficacy of virtual rehabilitation:

- a) Patient retention in different clinical populations;
- b) General vs. domain-specific outcomes;
- c) Dose and other moderating factors.

Guest Editors

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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