



Título: Usability Scaffolding for Evaluating Multimodal Video Games for Learners who are Blind

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Resumo:

Children who are blind face difficulties in multiple quotidian situations that require reasoning based on abstract cognitive concepts. The current literature indicates that serious Multimodal video games based on audio and haptics can be used to help developing new skills and to stimulate cognitive improvement for learners who are blind. However, to foment the intended cognitive skills, multimodal video games should meticulously combine audio and haptics as sources of perceptual inputs, and carefully use the controls and feedback to represent abstract information in an adequate modality for the correct interpretation of learners who are blind. In this context, usability issues in such video games will make users focus on the problems, distracting them from learning cognitive skills by interacting with the multimodal game. As a result, administering an accurate usability evaluation is a necessary step towards assisting children who are blind in the construction of cognitive skills while interacting with a multimodal gaming interface. Nevertheless, the traditional planning and application of HCI usability evaluation methods do not guarantee the proper evaluation of the multimodal characteristics that affect the interaction of learners who are blind. So, the main goal of this work is to provide scaffolding to guide researchers and practitioners in the administration of Usability Evaluation Methods, during usability field studies involving video games for cognitive development of young learners who are blind, considering the characteristics of the target users and the interaction modalities of the game.

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Escrito por Secretaria MDCC

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