



Título: Cognitive Impact Evaluation of Multimodal Interfaces for People Who Are Blind: Quali-Quantitative Review and Guidelines

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Resumo:

Visual disability has a major impact on people's quality of life. Although there are many technologies to assist people who are blind, most of them do not necessarily guarantee the effectiveness of the intended use. In this work, first, a systematic literature review concerning the cognitive impact evaluation of multimodal interfaces for people who are blind was conducted. Then, the results of the systematic literature review were reported with the purpose of understanding how the cognitive impact is currently evaluated when using multimodal interfaces for people who are blind. Among forty-seven papers retrieved from the systematic review, a high diversity of experiments was found. Some of them do not present the data results clearly and do not apply a statistical method to guarantee the results. Besides this, other points related to the experiments were analyzed. The conclusion was there is a need to better plan and present data from experiments on technologies for cognition of people who are blind. Moreover, this work also presented a data qualitative analysis based on the Grounded Theory based method to complement and enrich the systematic review results. Finally, a set of guidelines to conduct experiments concerning the cognitive impact evaluation of multimodal interfaces for people who are blind are presented.

Defesa de Dissertação: Lana Beatriz Medeiros de Mesquita

Escrito por Secretaria MDCC

Qua, 14 de Novembro de 2018 00:00

Banca:

- Prof. Dr. José Antonio Fernandes de Macêdo (MDCC/UFC - Orientador)
- Prof. Dr. Jaime Hernán Sánchez Illabaca (UChile - Coorientador)
- Prof. Dr. Francisco Carlos de Mattos Brito Oliveira (UNIFOR)
- Prof. Dr. Windson Viana de Carvalho (MDCC/UFC)