LIS

Laboratoire d'ingé
des systèmes de Vers

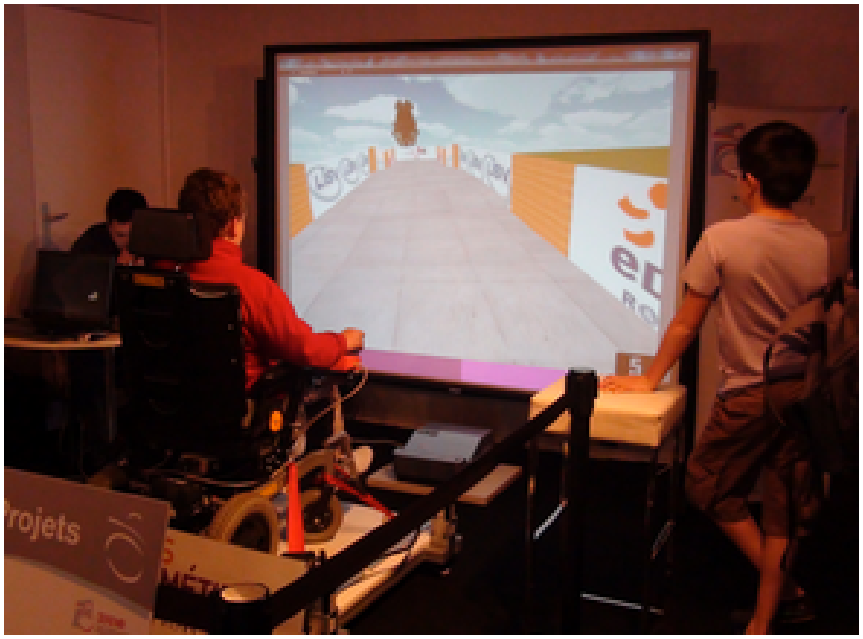
PROJET13 - MASTER2 CSER 2015

Moving assistance system with haptic feedback

PROJECT CONTEXT :

ACCESSIM :

The project aims to study and develop ways to allow expert centers to help design and evaluate accessible environments. In this perspective, the use of tools for visualization and navigation in 3D/Virtual Reality to better understand the difficulties encountered in immersion. This action aims to study both aspects evaluation use and support equipment test (model and use indicators).



In the context of wheelchair driving, it is necessary that the driving behavior is consistent between a real situation and a simulated situation (in VR). To do this, we need the virtual environment and the sensory feedback to be sufficiently realistic and immersive.

The aim of my project is to design a device to haptic feedback, connected to the physical model of the virtual space.

The device is a bracelet with vibrators that the user have to wear, it allow him to better understand the lateral ennvironement of the virtual space. The vibrations « vary » according to distance and location (left or right) that separate barriers and the avatar.

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