Subject #: ____ Page: 1 of 3

Questionnaire

1 Personal information

| In what age group are you? | |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 19 and under | |
| 20-29 | |
| 30-39 | |
| 40-49 | |
| 50-59 | |
| 60+ | |
| Gender: | |
| Male | |
| Female | |
| 2 To be completed before the experiment | |
| 2.1 Orientation and navigation for visually impaired | |
| Please rate the following tasks according to the difficulty for a visually impaired compared to a sighted: | $\begin{array}{c} \text{about the same} \rightarrow \\ \leftarrow \text{a lot more difficult} \end{array}$ |
| Crossing a street | |
| Walking in a park | |
| Navigating in an unknown apartment | |
| Navigating in a known apartment | |

| Subject #: | Page: 2 of 3 |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Besides the tasks mentioned above, which other tasks do you think impaired? | are difficult for visually |
| Please rate how important the following cues are for navigation: Listening to environmental sounds | $\begin{array}{c} \text{not important} \to \\ \leftarrow \text{very important} \end{array}$ |
| Listening to food step sounds | |
| Touching with the hands | |
| Force-feedback from the cane | |
| Smelling environmental smells | |
| Besides the cues mentioned above, which other cues do you think a navigation? To be completed after the experiments | ire important for |
| 3.1 Program evaluation | |
| Please rate the following aspects of the program: | $\begin{array}{c} \text{agree completely} \rightarrow \\ \leftarrow \text{strongly disagree} \end{array}$ |
| Navigation with vision was easy and intuitive | |
| The localization of sounds in 3D was good | |
| The cause of the sound was clear | |
| 3D audio was convincing | |

| | Page: 3 of 3 |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Which rotation type did you like more? | |
| Discrete Rotations | |
| Continuous Rotations | |
| 3.2 Orientation and navigation for visually impaired | |
| Please rate the following tasks according to the difficulty for a visually impaired compared to a sighted: | $\begin{array}{c} \text{about the same} \rightarrow \\ \leftarrow \text{a lot more difficult} \end{array}$ |
| Crossing a street | |
| Walking in a park | |
| Navigating in an unknown apartment | |
| Navigating in a known apartment | |
| | |
| | $\text{not important} \rightarrow$ |
| Please rate how important the following cues are for navigation: | $\begin{array}{c} \text{not important} \rightarrow \\ \leftarrow \text{very important} \end{array}$ |
| Please rate how important the following cues are for navigation: Listening to environmental sounds | - |
| | - |
| Listening to environmental sounds | - |
| Listening to environmental sounds | - |
| Listening to environmental sounds | - |
| Listening to environmental sounds Listening to food step sounds Touching with the hands Force-feedback from the cane | ← very important □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ |