Anexos

Presence Questionnaire -Utilizador 1

Item Stems	ITCorr	Score (1-8)	Real Score	Factor(s)
1. How much were you able to control events?	0,43	7	3,01	CF
2. How responsive was the environment to actions that you initiated (or performed)?	0,56	5	2,8	CF
3. How natural did your interactions with the environment seem?	0,61	4	2,44	CF
4. How completely were all of your senses engaged?	0,39	4	1,56	SF
5. How much did the visual aspects of the environment involve you?	0,48	5	2,4	SF
6. How much did the auditory aspects of the environment involve you?	0,32	3	0,96	SF
7. How natural was the mechanism which controlled movement through the environment?	0,62	6	3,72	CF
8. How aware were you of events occurring in the real world around you?	0,03	4	0,12	DF
9. How aware were you of your display and control devices?	-0,14	3	-0,42	DF
10. How compelling was your sense of objects moving through space?	0,51	5	2,55	SF
11. How inconsistent or disconnected was the information coming from your various senses?	0,33	4	1,32	RF
12. How much did your experiences in the virtual environment seem consistent with your real-world experiences?	0,62	4	2,48	RF, CF
13. Were you able to anticipate what would happen next in response to the actions that you performed?	0,43	6	2,58	CF
14. How completely were you able to actively survey or search the environment using vision?	0,59	6	3,54	RF, CF, SF
15. How well could you identify sounds?	0,34	1	0,34	RF, SF
16. How well could you localize sounds?	0,3	1	0,3	RF, SF
17. How well could you actively survey or search the virtual environment using touch?	0,15	7	1,05	RF, SF
18. How compelling was your sense of moving around inside the virtual environment?	0,62	5	3,1	SF
19. How closely were you able to examine objects?	0,55	7	3,85	SF
20. How well could you examine objects from multiple viewpoints?	0,49	8	3,92	SF
21. How well could you move or manipulate objects in the virtual environment?	0,11	8	0,88	CF
22. To what degree did you feel confused or disoriented at the beginning of breaks or at the end of the experimental session?	-0,06	1	-0,06	RF
23. How involved were you in the virtual environment experience?	0,52	8	4,16	
24. How distracting was the control mechanism?	0,37	2	0,74	DF
25. How much delay did you experience between your actions and expected outcomes?	0,41	1	0,41	CF
26. How quickly did you adjust to the virtual environment experience?	0,42	4	1,68	CF

Question				
27. How proficient in moving and interacting with the virtual environment did you feel at the end of the experience?	0,45	6	2,7	CF
28. How much did the visual display quality interfere or distract you from performing assigned tasks or required activities?	0,44	4	1,76	DF
29. How much did the control devices interfere with the performance of assigned tasks or with other activities?	0,44	4	1,76	DF, CF
30. How well could you concentrate on the assigned tasks or required activities rather than on the mechanisms used to perform those tasks or activities?	0,51	6	3,06	DF
31. Did you learn new techniques that enabled you to improve your performance?	0,33	3	0,99	CF
32. Were you involved in the experimental task to the extent that you lost track of time?	0,41	4	1,64	

Tabela 2 - Questionário de Presença Utilizador 1

Presence Questionnaire -Utilizador 2

Item Stems	ITCorr	Score (1-8)	Real Score	Factor(s)
1. How much were you able to control events?	0,43	5	2,15	CF
2. How responsive was the environment to actions that you initiated (or performed)?	0,56	5	2,8	CF
3. How natural did your interactions with the environment seem?	0,61	4	2,44	CF
4. How completely were all of your senses engaged?	0,39	4	1,56	SF
5. How much did the visual aspects of the environment involve you?	0,48	5	2,4	SF
6. How much did the auditory aspects of the environment involve you?	0,32	3	0,96	SF
7. How natural was the mechanism which controlled movement through the environment?	0,62	7	4,34	CF
8. How aware were you of events occurring in the real world around you?	0,03	1	0,03	DF
9. How aware were you of your display and control devices?	-0,14	3	-0,42	DF
10. How compelling was your sense of objects moving through space?	0,51	6	3,06	SF
11. How inconsistent or disconnected was the information coming from your various senses?	0,33	4	1,32	RF
12. How much did your experiences in the virtual environment seem consistent with your real-world experiences?	0,62	4	2,48	RF, CF
13. Were you able to anticipate what would happen next in response to the actions that you performed?	0,43	6	2,58	CF
14. How completely were you able to actively survey or search the environment using vision?	0,59	8	4,72	RF, CF, SF
15. How well could you identify sounds?	0,34	1	0,34	RF, SF
16. How well could you localize sounds?	0,3	1	0,3	RF, SF
17. How well could you actively survey or search the virtual environment using touch?	0,15	7	1,05	RF, SF
18. How compelling was your sense of moving around inside the virtual environment?	0,62	3	1,86	SF
19. How closely were you able to examine objects?	0,55	8	4,4	SF
20. How well could you examine objects from multiple viewpoints?	0,49	8	3,92	SF
21. How well could you move or manipulate objects in the virtual environment?	0,11	6	0,66	CF
22. To what degree did you feel confused or disoriented at the beginning of breaks or at the end of the experimental session?	-0,06	4	-0,24	RF
23. How involved were you in the virtual environment experience?	0,52	5	2,6	
24. How distracting was the control mechanism?	0,37	4	1,48	DF
25. How much delay did you experience between your actions and expected outcomes?	0,41	1	0,41	CF
26. How quickly did you adjust to the virtual environment experience?	0,42	4	1,68	CF

27. How proficient in moving and interacting with the virtual environment did you feel at the end of the experience?	0,45	4	1,8	CF
28. How much did the visual display quality interfere or distract you from performing assigned tasks or required activities?	0,44	2	0,88	DF
29. How much did the control devices interfere with the performance of assigned tasks or with other activities?	0,44	2	0,88	DF, CF
30. How well could you concentrate on the assigned tasks or required activities rather than on the mechanisms used to perform those tasks or activities?	0,51	5	2,55	DF
31. Did you learn new techniques that enabled you to improve your performance?	0,33	3	0,99	CF
32. Were you involved in the experimental task to the extent that you lost track of time?	0,41	2	0,82	

Tabela 3 - Questionário de Presença Utilizador 2

Presence Questionnaire -Utilizador 3

Item Stems	ITCorr	Score (1-8)	Real Score	Factor(s)
1. How much were you able to control events?	0,43	7	3,01	CF
2. How responsive was the environment to actions that you initiated (or performed)?	0,56	5	2,8	CF
3. How natural did your interactions with the environment seem?	0,61	4	2,44	CF
4. How completely were all of your senses engaged?	0,39	4	1,56	SF
5. How much did the visual aspects of the environment involve you?	0,48	5	2,4	SF
6. How much did the auditory aspects of the environment involve you?	0,32	3	0,96	SF
7. How natural was the mechanism which controlled movement through the environment?	0,62	6	3,72	CF
8. How aware were you of events occurring in the real world around you?	0,03	4	0,12	DF
9. How aware were you of your display and control devices?	-0,14	3	-0,42	DF
10. How compelling was your sense of objects moving through space?	0,51	5	2,55	SF
11. How inconsistent or disconnected was the information coming from your various senses?	0,33	4	1,32	RF
12. How much did your experiences in the virtual environment seem consistent with your real-world experiences?	0,62	4	2,48	RF, CF
13. Were you able to anticipate what would happen next in response to the actions that you performed?	0,43	6	2,58	CF
14. How completely were you able to actively survey or search the environment using vision?	0,59	6	3,54	RF, CF, SF
15. How well could you identify sounds?	0,34	1	0,34	RF, SF
16. How well could you localize sounds?	0,3	1	0,3	RF, SF
17. How well could you actively survey or search the virtual environment using touch?	0,15	7	1,05	RF, SF
18. How compelling was your sense of moving around inside the virtual environment?	0,62	5	3,1	SF
19. How closely were you able to examine objects?	0,55	7	3,85	SF
20. How well could you examine objects from multiple viewpoints?	0,49	8	3,92	SF
21. How well could you move or manipulate objects in the virtual environment?	0,11	8	0,88	CF
22. To what degree did you feel confused or disoriented at the beginning of breaks or at the end of the experimental session?	-0,06	1	-0,06	RF
23. How involved were you in the virtual environment experience?	0,52	8	4,16	
24. How distracting was the control mechanism?	0,37	2	0,74	DF
25. How much delay did you experience between your actions and expected outcomes?	0,41	1	0,41	CF
26. How quickly did you adjust to the virtual environment experience?	0,42	4	1,68	CF

27. *How proficient in moving and interacting with the virtual environment did you feel at the end of the experience?*	0,45	6	2,7	CF
28. *How much did the visual display quality interfere or distract you from performing assigned tasks or required activities?*	0,44	4	1,76	DF
29. *How much did the control devices interfere with the performance of assigned tasks or with other activities?*	0,44	4	1,76	DF, CF
30. *How well could you concentrate on the assigned tasks or required activities rather than on the mechanisms used to perform those tasks or activities?*	0,51	6	3,06	DF
31. *Did you learn new techniques that enabled you to improve your performance?*	0,33	3	0,99	CF
32. *Were you involved in the experimental task to the extent that you lost track of time?*	0,41	4	1,64	

Tabela 4 - Questionário de Presença Utilizador 3