

# User Study Survey

This survey studies the user experience of DiscPIM and AssistVR. Users use two object selection techniques to select a number of target objects under three different perplexity conditions. Upon completing all selection tasks with each technique, users fill out this form to share their user experience. All personal identifiable information will be removed in publications.

## Demographic and General Questions

Please answer the following questions. It is fine to leave a response blank if you would prefer not to provide an answer. The purpose of collecting demographic and experiential information is to provide future readers of any potential publication with a general understanding of the characteristics of our participant group.

All data will be anonymised and any references to the data will be done so that you are not identifiable.

### 1. Participant ID

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### 2. Sex

*Mark only one oval.*

☐ Male

☐ Female

☐ Other: 

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### 3. Age

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4. Are you familiar with head-mounted virtual reality?

*Mark only one oval.*

	1	2	3	4	5	
Very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very Experienced

5. Are you familiar with speech recognition systems?

*Mark only one oval.*

	1	2	3	4	5	
Very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very Experienced

6. Are you a native English speaker?

*Mark only one oval.*

☐ Yes

☐ No

7. Do you have any accessibility needs?

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### **User Experience with Technique 1**

Please share your experience with the first selection technique by answering the following questions.

8. What do you like about this technique?

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9. What do you dislike about this technique?

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10. Other open comments

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11. I think that I would like to use this system frequently.

*Mark only one oval.*

1   2   3   4   5

Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

12. I found the system unnecessarily complex.

*Mark only one oval.*

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree
<hr/>						

13. I thought the system was easy to use.

*Mark only one oval.*

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree
<hr/>						

14. I think that I would need the support of a technical person to be able to use this system.

*Mark only one oval.*

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree
<hr/>						

15. I found the various functions in this system were well integrated.

*Mark only one oval.*

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree
<hr/>						

16. I thought there was too much inconsistency in this system.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

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17. I would imagine that most people would learn to use this system very quickly.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

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18. I found the system very cumbersome to use.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

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19. I felt very confident using the system.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

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20. I needed to learn a lot of things before I could get going with this system.

Mark only one oval.

1 2 3 4 5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

21. Mental Demand: How mentally demanding was the task?

Mark only one oval.

[illegible]

22. Physical Demand: How physically demanding was the task?

Mark only one oval.

[illegible]

23. Temporal Demand: How hurried or rushed was the pace of the task?

Mark only one oval.

[illegible]

24. Performance: How successful were you in accomplishing what you were asked to do?

Mark only one oval.

1    2    3    4    5    6    7    8    9    10

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Perf ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Failure

25. Effort: How hard did you have to work to accomplish your level of performance?

Mark only one oval.

[illegible]

26. Frustration: How insecure, discouraged, irritated, stressed, and annoyed were you?

Mark only one oval.

[illegible]

27. What do you think of the technique?

Mark only one oval.

[illegible]

28. What do you think of the technique?

Mark only one oval.

[illegible]

29. What do you think of the technique?

Mark only one oval.

1    2    3    4    5    6    7

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Ineff ○   ○   ○   ○   ○   ○   ○ Efficient

30. What do you think of the technique?

Mark only one oval.

[illegible]

31. What do you think of the technique?

Mark only one oval.

[illegible]



32. What do you think of the technique?

*Mark only one oval.*

	1	2	3	4	5	6	7	
Not	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Interesting

33. What do you think of the technique?

*Mark only one oval.*

	1	2	3	4	5	6	7	
Con	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inventive

34. What do you think of the technique?

*Mark only one oval.*

	1	2	3	4	5	6	7	
Usu:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Leading Edge

## User Experience with Technique 2

Please share your experience with the second selection technique by answering the following questions.

35. What do you like about this technique?

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36. What do you dislike about this technique?

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37. Other open comments

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38. I think that I would like to use this system frequently.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

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39. I found the system unnecessarily complex.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

---

40. I thought the system was easy to use.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

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41. I think that I would need the support of a technical person to be able to use this system.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

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42. I found the various functions in this system were well integrated.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

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43. I thought there was too much inconsistency in this system.

*Mark only one oval.*

1   2   3   4   5

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Stro ☐ ☐ ☐ ☐ ☐ Strongly Agree

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44. I would imagine that most people would learn to use this system very quickly.

*Mark only one oval.*

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree
<hr/>						

45. I found the system very cumbersome to use.

*Mark only one oval.*

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree
<hr/>						

46. I felt very confident using the system.

*Mark only one oval.*

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree
<hr/>						

47. I needed to learn a lot of things before I could get going with this system.

*Mark only one oval.*

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree
<hr/>						

48. Mental Demand: How mentally demanding was the task?

Mark only one oval.

[illegible]

49. Physical Demand: How physically demanding was the task?

Mark only one oval.

[illegible]

50. Temporal Demand: How hurried or rushed was the pace of the task?

Mark only one oval.

[illegible]

51. Performance: How successful were you in accomplishing what you were asked to do?

Mark only one oval.

1    2    3    4    5    6    7    8    9    10

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Perf ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Failure

52. Effort: How hard did you have to work to accomplish your level of performance?

Mark only one oval.

[illegible]

53. Frustration: How insecure, discouraged, irritated, stressed, and annoyed were you?

Mark only one oval.

[illegible]

54. What do you think of the technique?

Mark only one oval.

[illegible]

55. What do you think of the technique?

Mark only one oval.

[illegible]



60. What do you think of the technique?

*Mark only one oval.*

	1	2	3	4	5	6	7	
Con	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inventive

61. What do you think of the technique?

*Mark only one oval.*

	1	2	3	4	5	6	7	
Usu:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Leading Edge

### Final Comments on User Experience

Please share any final comments on both techniques.

62. Overall Preference

*Mark only one oval.*

☐ Technique 1

☐ Technique 2

63. Among both techniques, which features did you like?

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64. Among both techniques, which features did you dislike?

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65. Which features would you wish to have?

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66. Other open comments

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