

# Human-Robot Interaction using Sign Language

Evaluation of the Human-Robot Interaction using language

## Ease of use

Below are a series of questions in which you will rate the questions on a scale of 1 to 5.

1. How easy was it to use the sign language commands to interact with the robot?

Mark only one oval.

Very easy

1

2

3

4

5

Very hard

2. How intuitive were the sign language commands?

Mark only one oval.

Very intuitive

1

2

3

4

5

Counter intuitive

3. How accurate was the robot in imitating your movement?

Mark only one oval.

Very accurate

1

2

3

4

5

Very inaccurate

4. How quick was the robot in recognizing that you were making a fist?

Mark only one oval.

Very quick

1

2

3

4

5

Took too long

Open-ended questions

Below are a few mixed questions. Feel free to answer with as much or as little text as you would like for the open questions.

6. What other features would you like to see in the product?

7. Would you recommend this system to a friend?

Mark only one oval.

Yes

No

Usability

Below are a series of questions which you can rate from 1-10. With 1: strongly agree, 10: strongly disagree. Keep in mind that the system doesn't require you to repeat shapes (circle, triangle, square) as these were just for our testing purposes. These questions are related to for example: the sign language, the mode changes (record, hey, stop) and the general movement of the robot.

5. How intuitive was it to move the robot base around in MOVE mode?

Mark only one oval.

Very intuitive

1

2

3

4

5

Counter intuitive

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

Mark only one oval.

Strongly agree

1

2

3

4

5

6

7

8

9

10

Strongly disagree

9. I found the system unnecessarily complex.

Mark only one oval.

Strongly agree

1

2

3

4

5

6

7

8

9

10

Strongly disagree

10. I thought the system was easy to use.

Mark only one oval.

Strongly agree

1

2

3

4

5

6

7

8

9

10

Strongly disagree

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

Mark only one oval.

Strongly agree

1

2

3

4

5

6

7

8

9

10

Strongly disagree

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

Mark only one oval.

Strongly agree

1

☐

2

☐

3

☐

4

☐

5

☐

6

☐

7

☐

8

☐

9

☐

10

☐

Strongly disagree

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

Mark only one oval.

Strongly agree

1

☐

2

☐

3

☐

4

☐

5

☐

6

☐

7

☐

8

☐

9

☐

10

☐

Strongly disagree

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

Mark only one oval.

Strongly agree

1

2

3

4

5

6

7

8

9

10

Strongly disagree

15. I found the system very cumbersome (awkward) to use.

Mark only one oval.

Strongly agree

1

2

3

4

5

6

7

8

9

10

Strongly disagree

16. I felt very confident using the system.

Mark only one oval.

Strongly agree

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

6 ☐

7 ☐

8 ☐

9 ☐

10 ☐

Strongly disagree

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

Mark only one oval.

Strongly disagree

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

6 ☐

7 ☐

8 ☐

9 ☐

10 ☐

Strongly agree

Thank you.

Thank you for partaking in the experiment.

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