

SURVEY

Welcome to the survey!

Thank you for taking the time to participate in the survey.

Today, you interacted with a *collaborative robot* that has been developed to perform in a chemical industry scenario, specifically, assisting the human operator in *pouring chemicals*.

Now, you are kindly asked to answer the following *questions* concerning the *experience* you had today collaborating with the *robot*.

It will take about 5-10 minutes to answer the questions.

Kind regards,

Human-Robot Interfaces and Interaction Laboratory

Demographic data

Before starting, please provide *age* and *gender*:

- Age:
- Gender:

Questionnaire

With reference to the questions, there will be questions where you need to provide an answer based on a **5-point scale** (1=low, 5=high).

Question 1

How much did each of the following parameters impact your level of trust towards the robot?

Velocity of the robot	1	2 🔿	3	4	5 🔿
Distance between you and the robot	1	2 🔿	3 🔿	4	5 🔿
Height of pouring	1	2 🔿	3	4	5 🔿

Please respond to the following questions by indicating either "A" or "B" depending on the experimental test.

Question 2

The way the robot moved during this experimental session promoted my trust in the robot. *Strongly disagree* $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ *Strongly agree*

Question 3

To what degree did the **robot** ...

Act consistently	1 🔿	2 🔿	3 🔿	4 🔿	5 🔿
Function successfully	10	2 🔿	3 🔿	4 🔿	5 🔿
Perform exactly as instructed	1	2 🔿	3 🔿	4 🔿	5 🔿
Reliable	1 🔿	2 🔿	3 🔿	4 🔿	5 🔿
Predictable	1	2 🔾	3)	4	5 🔿

Question 4

The way the robot moved made me uncomfortable.

Strongly disagree $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ Strongly agree

I felt I could rely on the robot to do what it is supposed to do.

Strongly disagree $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ Strongly agree

The speed at which the robot picked up and released the components made me easy.

Strongly disagree	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	Strongly agree

I felt safe interacting with the robot.

Strongly disagree	\cap	$) \cap$	\bigcirc	\bigcirc	Strongly agree
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The robot did not look reliable.

Strongly disagree $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ Strongly agree

I was comfortable the robot would not hurt me.

Strongly disagree $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ Strongly agree

I trusted that the robot was safe to cooperate with.

Strongly disagree $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ Strongly agree