

Attachment D: Robot Experience Questionnaire

ROBOT EXPERIENCE QUESTIONNAIRE

1. Prior experience with industrial robots

- a) Do/did any of your previous or current workplaces have ANY types of robots operating in the work areas?

YES | NO

If you answered 'No' to the previous question, skip to Question 2.

- b) Which of the following types of robots does/did your workplaces have? Check all that apply.

- Traditional industrial robots, such as work in robotic cells and cages away from human workers
- Collaborative robots, that may physically interact with humans in a shared workspace
- Mobile robots or autonomous ground vehicles
- Aerial robots or drones
- Wearable robots or exoskeletons
- Other: _____

- c) How long have you used or worked with the technology that you selected above?
_____years

- d) How often have/had you worked in direct interaction or within a shared work area with the selected robot(s)?

- Never
- Hardly ever
- Occasionally
- Quite often
- Frequently
- Nearly all the time

2. Following questions will ask your opinion regarding current and future robots in workplaces.

- a) Using a percentage, please mark how many jobs do you think will be replaced by robots in **10** years (by year 2030)?
0% – 10% – 20% – 30% – 40% – 50% – 60% – 70% – 80% – 90% – 100%
- b) Using a percentage, please mark how many jobs do you think will be replaced by robots in **30** years (by year 2050)?

0% – 10% – 20% – 30% – 40% – 50% – 60% – 70% – 80% – 90% – 100%

3. Following questions will ask your attitudes towards robots in general. Please indicate to what extent you agree or disagree with each of the following statements on a 5-point scale:

- a) I would feel uneasy if robots had emotions.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- b) Something bad might happen if robots developed into living beings.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- c) I would feel relaxed talking with robots.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- d) I would feel uneasy if I was given a job where I had to work alongside a robot.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- e) If robots had emotions, I would be able to make friends with them.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- f) I would feel comfortable being with a robot that had emotions.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- g) The word “robot” means nothing to me.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- h) I would feel nervous operating a robot in front of other people.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- i) I would hate the idea that robots or artificial intelligences were making judgments about things.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- j) I would feel very nervous standing in front of a robot.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- k) I feel that if I depend on robots too much, something bad might happen.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- l) I would feel paranoid talking with a robot.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- m) I am concerned that robots would be a bad influence on children.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)
- n) I feel that in the future, society will be dominated by robots.
(I strongly disagree) 1---2---3---4---5 (I strongly agree)

Question 3: Negative Attitude Toward Robots Scale: Nomura T, Suzuki T, Kanda T, Kato (2006). Measurement of negative attitudes toward robots. Interaction Studies 7(3):437-54.

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