

Pedestrian's Intention To Cross In Front Of An Automated Vehicle

Instructions ▲

You are invited to participate in a research study entitled “Pedestrian's intention to cross in front of an automated vehicle”. The study is being conducted by Dr. Pavlo Bazilinskyy, ir. Lars Kooijman, and Dr.ir. Joost de Winter, Department of Cognitive Robotics, Delft University of Technology, The Netherlands, p.bazilinskyy@tudelft.nl (mailto:p.bazilinskyy@tudelft.nl).

The purpose of this research is to determine willingness to cross the road in front of a car with an external Human Machine Interface (eHMI). Such an interface may be used in future cars to communicate with pedestrians or cyclists. Your participation in the study will contribute to a better understanding of visual interfaces for automated vehicles.

You are free to contact the investigator at the above email address to ask questions about the study. You must be at least 18 years old to participate. The survey will take approximately 15 minutes of your time. In case you participated in a previous survey of one of the present investigators, your responses may be combined with the previous survey.

The information collected in the survey is anonymous. Participants will not be personally identifiable in any research papers arising from this study. If you agree to participate and understand that your participation is voluntary, then continue. If you would not like to participate, then please close this page. Before the study starts, the videos will be preloaded. This may take a few minutes depending on your Internet connection.

Please maximise your browser window before the start of the experiment. Do not switch tabs during the experiment. Do not use Internet Explorer for this study.

General questions

Have you read and understood the above instructions? (required)

- ☐ Yes
- ☐ No

What is your gender? (required)

- ☐ Male
- ☐ Female
- ☐ I prefer not to respond

What is your age? (required)

In which type of place are you located now? (required)

- ☐ Indoor, dark
- ☐ Indoor, dim light

- ☐ Indoor, bright light
- ☐ Outdoor, dark
- ☐ Outdoor, dim light
- ☐ Outdoor, bright light
- ☐ Other
- ☐ I prefer not to respond

If you answered 'Other' in the previous question, please describe the place where you located now below.

Which input device are you using now? (required)

- ☐ Laptop keyboard
- ☐ Desktop keyboard
- ☐ Tablet on-screen keyboard
- ☐ Mobile phone on-screen keyboard
- ☐ Other
- ☐ I prefer not to respond

If you answered 'Other' in the previous question, please describe your input device below.

At which age did you obtain your first license for driving a car or motorcycle?

What is your primary mode of transportation (required)

- ☐ Private vehicle
- ☐ Public transportation
- ☐ Motorcycle
- ☐ Walking/Cycling
- ☐ Other
- ☐ I prefer not to respond

On average, how often did you drive a vehicle in the last 12 months? (required)

- ☐ Every day
- ☐ 4 to 6 days a week
- ☐ 1 to 3 days a week
- ☐ Once a month to once a week
- ☐ Less than once a month
- ☐ Never
- ☐ I prefer not to respond

About how many kilometers (miles) did you drive in the last 12 months? (required)

- ☐ 0 km / mi
- ☐ 1 - 1,000 km (1 - 621 mi)
- ☐ 1,001 - 5,000 km (622 - 3,107 mi)

- ☐ 5,001 - 15,000 km (3,108 - 9,321 mi)
- ☐ 15,001 - 20,000 km (9,322 - 12,427 mi)
- ☐ 20,001 - 25,000 km (12,428 - 15,534 mi)
- ☐ 25,001 - 35,000 km (15,535 - 21,748 mi)
- ☐ 35,001 - 50,000 km (21,749 - 31,069 mi)
- ☐ 50,001 - 100,000 km (31,070 - 62,137 mi)
- ☐ More than 100,000 km (more than 62,137 mi)
- ☐ I prefer not to respond

How many accidents were you involved in when driving a car in the last 3 years? (please include all accidents, regardless of how they were caused, how slight they were, or where they happened) (required)

- ☐ 0
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ More than 5
- ☐ I prefer not to respond

How often do you do the following?: Becoming angered by a particular type of driver, and indicate your hostility by whatever means you can. (required)

- ☐ 0 times per month
- ☐ 1 to 3 times per month
- ☐ 4 to 6 times per month
- ☐ 7 to 9 times per month
- ☐ 10 or more times per month
- ☐ I prefer not to respond

How often do you do the following?: Disregarding the speed limit on a motorway. (required)

- ☐ 0 times per month
- ☐ 1 to 3 times per month
- ☐ 4 to 6 times per month
- ☐ 7 to 9 times per month
- ☐ 10 or more times per month
- ☐ I prefer not to respond

How often do you do the following?: Disregarding the speed limit on a residential road. (required)

- ☐ 0 times per month
- ☐ 1 to 3 times per month
- ☐ 4 to 6 times per month
- ☐ 7 to 9 times per month
- ☐ 10 or more times per month
- ☐ I prefer not to respond

How often do you do the following?: Driving so close to the car in front that it would be difficult to stop in an emergency. (required)

- ☐ 0 times per month
- ☐ 1 to 3 times per month
- ☐ 4 to 6 times per month
- ☐ 7 to 9 times per month
- ☐ 10 or more times per month
- ☐ I prefer not to respond

How often do you do the following?: Racing away from traffic lights with the intention of beating the driver next to you. (required)

- ☐ 0 times per month
- ☐ 1 to 3 times per month
- ☐ 4 to 6 times per month
- ☐ 7 to 9 times per month
- ☐ 10 or more times per month
- ☐ I prefer not to respond

How often do you do the following?: Sounding your horn to indicate your annoyance with another road user. (required)

- ☐ 0 times per month
- ☐ 1 to 3 times per month
- ☐ 4 to 6 times per month
- ☐ 7 to 9 times per month
- ☐ 10 or more times per month
- ☐ I prefer not to respond

How often do you do the following?: Using a mobile phone without a hands free kit. (required)

- ☐ 0 times per month
- ☐ 1 to 3 times per month
- ☐ 4 to 6 times per month
- ☐ 7 to 9 times per month
- ☐ 10 or more times per month
- ☐ I prefer not to respond

Experiment on pedestrian's intention to cross in front of an automated vehicle You will be asked to leave figure-eight to participate in the experiment. You will need to open the link below. Do not close this tab. In the end of the experiment you will be given a code to input in the next question on this tab. Please take a note of the code. Without the code, you will not be able to receive money for your participation. All videos will be downloaded before the start of the experiment. It may take a few minutes. Please do not close your browser during that time.

Open this link (<https://ehmi-videos.herokuapp.com/?work=UNITY1>) to start experiment.

Type the code that you received at the end of the experiment (required)

How did you perform the task? Describe the strategy that you developed while performing the experiment. (required)

Miscellaneous questions

In which year do you think that most cars will be able to drive fully automatically in your country of residence? (required)

Test Validators