(MS543) AUTONOMOUS VEHICLE SAFETY [MAIN SURVEY]

i106

In this survey, we would like to learn about how you value information from various sources and how patterns of information from different sources affect your thinking.

Imagine that a company is introducing autonomous vehicles to your community. Autonomous vehicles, or "AVs", are cars that use technology to drive without active physical control or monitoring by a human driver.

i107

We would like to know how you think about the safety of these AVs after considering information from different sources. You will be shown scenarios where sources agree or disagree about AV safety. Whether sources line up may or may not affect how you think about the safety of AVs.

Safety means eliminating, minimizing, or managing harm to you and your community.

instructions - instructions

[*Numeric ◆ Not required ◆ Read-only ◆ Lower limit=0 ◆ Lower limit type=GreaterOrEqual ◆ Upper limit=100 ◆ Upper limit type=SmallerOrEqual ◆ Total Digits=3*]

In each scenario, you will indicate your perception of the safety of AVs on a scale ranging from "not at all safe" and "completely safe".

For most scenarios you will probably assign a score somewhere between "not at all safe" and "completely safe".

i111

If for a given scenario, you believe that AVs are completely safe based on the information provided from each source, you would give that scenario the highest safety score, indicated by moving the slider to the far right side.

On the other hand, if you think that based on that scenario you would feel that AVs are not at all safe, you would give that scenario the lowest possible score, indicated by moving the slider to the far left side.

label_def

Information on the safety of AVs will be provided from 8 different sources. These are described on the following screens:

Average AV crash rate: data on the real world crash rates for AVs compared to human drivers. Average AV near-miss crash rate: data on the real world near-miss rates for AVs compared to human drivers. Federal vehicle requirements refers to the performance of vehicles meeting or failing to meet federal safety requirements. These requirements are not specific to AVs. Federal government official position on AV safety refers to an official declaration from the federal government through the Department of Transportation on AV safety. State and local government official position on AV safety refers to an official declaration from your state and local government on AV safety. AV companies' official position on AV safety refers to AV technology companies' statements (e.g., press releases) on AV safety. Safety advocacy group's official

position refers to advocacy groups like Consumer Reports, AAA, AARP, etc. Friend or family member refers to the experiences or recommendations given to you about AVs from a friend or family member.

i113

These sources can provide both supporting and conflicting information about the safety of AVs. In each scenario, the information provided from each source will be displayed using the following images:

indicates that the source strongly shows that AVs are SAFE. indicates that the source mostly shows that AVs are SAFE. No Information indicates that the source has given no information about the safety of AVs. indicates that the source mostly shows that AVs are UNSAFE. indicates that the source strongly shows that AVs are UNSAFE.

i114

The following page provides an example.

example -

[*Numeric ◆ Not required ◆ Read-only ◆ Lower limit=0 ◆ Lower limit type=GreaterOrEqual ◆ Upper limit=100 ◆ Upper limit type=SmallerOrEqual ◆ Total Digits=3*]

In this example, the crash rate and near miss rate showed AVs were unsafe. The AV had generally satisfied federal vehicle requirements. State and local government endorsed the AV's safety and the AV company strongly endorsed its safety. No other evidence was available. The participant gave a perceived safety rating between "a little" and "generally".

i117

On the following screens, we will ask you to provide your own perceived safety ratings for 20 different scenarios.

scenarioNr -

[*Numeric ◆ Not required ◆ Lower limit=0 ◆ Lower limit type=GreaterOrEqual ◆ Upper limit=100 ◆ Upper limit type=SmallerOrEqual ◆ Total Digits=3*]

i121

On the following screen, please rank each of the following sources with a score of 1 to 8. These are the same sources used in the scenarios you have just seen. Please assign a rank of 1 to your most preferred source of evidence and a rank of 8 to your least preferred source of evidence. Rank will be assigned in the order that you click on the sources, starting with 1.

ranking

[*Randomized answerlist ◆ Not required ◆ Ranking*]

Please click on the sources in your order of preference. Your most preferred source is ranked 1.

____ Source of evidence (9)
____ Average AV crash rate (1)
____ Average AV near - miss rate (2)
____ Federal vehicle requirements (3)

____ Federal government official position (4)
____ State or local government official position (5)
____ AV company's official position (6)
____ Safety advocacy group's official position (7)
____ Friends or family members (8)

rankingOrder

[*Not required ◆ Columns=0*]

#rankingOrder{ display:none; }

technology_comfort

[*Not required*]

Thank you for your insight! We have a few more questions about how you use technology:

In general, how would you rate your comfort with technology?

❍ Very comfortable (a)
❍ Comfortable (b)
❍ Slightly comfortable (c)
❍ Neither comfortable nor uncomfortable (d)
❍ Slightly uncomfortable (e)
❍ Uncomfortable (f)
❍ Very uncomfortable (g)

AV_attitude

[*Not required*]

Please answer the following questions about your attitudes towards AV technology.

	Strongly agree (a)	Agree (b)	Slightly agree (c)	Neither agree nor disagree (d)	Slightly disagree (e)	Disagree (f)	Strongly disagree (g)
I would be comfortable with riding in an AV. (1)	❍	❍	❍	❍	❍	❍	❍
I would be concerned about riding in an AV. (2)	❍	❍	❍	❍	❍	❍	❍
I think advances in science and technology in the next 10 years will allow AVs to be as safe or safer than human drivers. (3)	❍	❍	❍	❍	❍	❍	❍

technology_rideshare

[*Not required*]

How often do you use rideshare (e.g. Lyft and Uber)?

❍ Daily (a)
❍ Weekly (b)
❍ Monthly (c)
❍ Yearly (d)
❍ Never (e)
❍ Don't know (f)

CONDITION	
true Question technology_summon()	false

technology_summon

[*Not required*]

When you use a rideshare, do you generally summon it yourself or does someone else summon the car for you?

❍ I summon the car myself (a)
❍ Someone else summons the car (b)

END	
Condition	

CS_001 - CS_001

[*Not required*]

Could you tell us how interesting or uninteresting you found the questions in this interview?

❍ Very interesting (1)
❍ Interesting (2)
❍ Neither interesting nor uninteresting (3)
❍ Uninteresting (4)
❍ Very uninteresting (5)