

Supplementary Information

0.1 Independent variables (regressors of interest)

0.1.1 Affinity for Technology Interaction (ATI) - *Adapted*

[scale](#) [source](#) [link](#)

In the following questions, we will ask you about your interaction with technical systems. The term “technical systems” refers to apps and other software applications, as well as entire digital devices (e.g., mobile phone, computer, TV, car navigation, artificial intelligence).

Please indicate the degree to which you agree/disagree with the following statements.

Rating scale: 1 = *Strongly disagree*, 2 = *Moderately disagree*, 3 = *Slightly disagree*, 4 = *Neither agree nor disagree*, 5 = *Slightly agree*, 6 = *Moderately agree*, 7 = *Strongly agree*

1. I like to occupy myself in greater detail with technical systems.
2. I like testing the functions of new technical systems.
3. I predominantly deal with technical systems because I have to.
4. When I have a new technical system in front of me, I try it out intensively.
5. I enjoy spending time becoming acquainted with a new technical system.
6. It is enough for me that a technical system works; I don't care how or why.
7. I try to understand how a technical system exactly works.
8. It is enough for me to know the basic functions of a technical system.
9. I try to make full use of the capabilities of a technical system.
10. I like to try out new artificial intelligence technologies like chatbots (e.g., ChatGPT).
11. I don't really care how artificial intelligence works.

0.1.2 Ten-Item Personality Inventory (TIPI)

[scale](#) [source](#) [link](#)

Rating scale: 1 = *Strongly disagree*, 2 = *Moderately disagree*, 3 = *Slightly disagree*, 4 = *Neither agree nor disagree*, 5 = *Slightly agree*, 6 = *Moderately agree*, 7 = *Strongly agree* I see myself as:

1. Extraverted, enthusiastic.
2. Critical, quarrelsome.
3. Dependable, self-disciplined.
4. Anxious, easily upset.
5. Open to new experiences, complex.
6. Reserved, quiet.
7. Sympathetic, warm.
8. Disorganized, careless.
9. Calm, emotionally stable.
10. Conventional, uncreative.

0.1.3 Sociability

[scale](#) [source](#) [link](#)

Rating scale: 1 = *Strongly disagree*, 2 = *Moderately disagree*, 3 = *Slightly disagree*, 4 = *Neither agree nor disagree*, 5 = *Slightly agree*, 6 = *Moderately agree*, 7 = *Strongly agree*

1. I feel that I am enjoyable to be with.
2. I question whether I am enjoyable to be with.
3. I feel uncomfortable when I have to meet new people.
4. I like to meet new people.
5. I feel at ease with other people.
6. I am very shy with other people.
7. I am very sociable.
8. I am not sociable.

0.1.4 Social Competence

[scale](#) [source](#) [link](#)

Rating scale: 1 = *Strongly disagree*, 2 = *Moderately disagree*, 3 = *Slightly disagree*, 4 = *Neither agree nor disagree*, 5 = *Slightly agree*, 6 = *Moderately agree*, 7 = *Strongly agree*

1. I am good at making friends.
2. I help other people.
3. I share what I have with others.
4. I ask others if I can be of help.
5. I get along well with others.
6. I do nice things for people.

0.1.5 Self-Esteem

[scale source link](#)

Rating scale: 1 = *Strongly disagree*, 2 = *Moderately disagree*, 3 = *Slightly disagree*, 4 = *Neither agree nor disagree*, 5 = *Slightly agree*, 6 = *Moderately agree*, 7 = *Strongly agree*

1. On the whole, I am satisfied with myself.
2. At times I think I am no good at all.
3. I feel that I have a number of good qualities.
4. I am able to do things as well as most other people.
5. I feel I do not have much to be proud of.
6. I certainly feel useless at times.
7. I feel that I'm a person of worth.
8. I wish I could have more respect for myself.
9. All in all, I am inclined to think that I am a failure.
10. I take a positive attitude toward myself.

0.1.6 UCLA Loneliness Scale

[scale source link](#)

Rating scale: 1 = *I never feel this way*, 2 = *I rarely feel this way*, 3 = *I sometimes feel this way*, 4 = *I often feel this way*

1. I am unhappy doing so many things alone.
2. I have nobody to talk to.
3. I cannot tolerate being so alone.
4. I lack companionship.
5. I feel as if nobody really understands me.
6. I find myself waiting for people to call or write.
7. There is no one I can turn to.
8. I am no longer close to anyone.
9. My interest and ideas are not shared by those around me.
10. I feel left out.
11. I feel completely alone.
12. I am unable to reach out and communicate with those around me.
13. My social relationships are superficial.
14. I feel starved for company.
15. No one really knows me well.
16. I feel isolated from others.
17. I am unhappy being so withdrawn.
18. It is difficult for me to make friends.
19. I feel shut out and excluded by others.
20. People are around me but not with me.

0.1.7 Mental health and other diagnoses

1. Have you ever experienced any of the following? Select all that apply (*Depression / Anxiety / Bipolar disorder / Obsessive-compulsive disorder / Eating disorder / Phobias / Post-traumatic stress disorder (PTSD) / Psychotic disorder / Panic disorder / Anger disorder / ADHD / Autism / Other*)
2. Which of the ones you selected have you been diagnosed with by a physician?

0.1.8 Demographics

1. Choose one or more races you consider yourself to be (*White or Caucasian / Black or African American / American Indian/Native American or Alaska Native / Asian / Native Hawaiian or Other Pacific Islander / Other / Prefer not to say*)

2. What is the highest level of education you have completed? (*Some high school or less / High school diploma or GED / Some college, but no degree / Associates or technical degree / Bachelor's degree / Graduate or professional degree / Prefer not to say*)
3. What was your total household income before taxes during the last 12 months?
4. How old are you? (*18-24 / 25-34 / ... / 65+*)
5. How do you describe yourself? (*Man / Woman / Non-binary/third gender / Prefer to self-describe / Prefer not to say*)
6. What is your current marital status? (*Married / Living with a partner / Widowed / Divorced/Separated / Never been married*)

0.2 Dependent variables in regression analysis

0.2.1 General Attitudes Toward Robots (GAToRS) - *Adapted*

[scale source link](#)

Please read the following statements and answer based on how much you agree or disagree with each statement.

Rating scale: 1 = *Strongly disagree*, 2 = *Moderately disagree*, 3 = *Slightly disagree*, 4 = *Neither agree nor disagree*, 5 = *Slightly agree*, 6 = *Moderately agree*, 7 = *Strongly agree*

Personal Level Positive Attitude (P+)

1. I can trust persons and organizations related to the development of artificial intelligence.
2. Persons and organizations related to the development of artificial intelligence will consider the needs, thoughts, and feelings of their users.
3. I can trust artificial intelligence.
4. I would feel relaxed talking with an artificial intelligence agent like a chatbot, digital voice assistant, or robot.
5. If an artificial intelligence agent such as a chatbot, digital voice assistant, or robot had emotions, I would be able to befriend them.

Personal Level Negative Attitude (P-)

1. I would feel uneasy if I was given a job where I had to use artificial intelligence.
2. I fear that an artificial intelligence would not understand my commands.
3. Artificial intelligence scares me.
4. I would feel very nervous just being around an artificial intelligence agent.
5. I don't want an artificial intelligence agent such as a robot to touch me.

Societal Level Positive Attitude (S+)

1. Artificial intelligence is necessary because it can do jobs that are too hard or too dangerous for people.
2. Artificial intelligence can make life easier.
3. Assigning routine tasks to artificial intelligence lets people do more meaningful tasks.
4. Dangerous tasks should primarily be given to artificial intelligence.
5. Artificial intelligence is a good thing for society, because it helps people.

Societal Level Negative Attitude (S-)

1. Artificial intelligence may make us even lazier.
2. Widespread use of artificial intelligence is going to take away jobs from people.
3. I am afraid that artificial intelligence agents like chatbots, digital voice assistants, or robots will encourage less interaction between humans.
4. Artificial intelligence is one of the areas of technology that needs to be closely monitored.
5. Unregulated use of artificial intelligence can lead to societal upheaval.