

Participant Information Sheet

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| Project title: | Personalized educational game in human-agent systems |
| Principal investigator: | Nadin Kokciyan |
| Researcher collecting data: | Yibin Xia |
| Funder (if applicable): | None |

This study was certified according to the Informatics Research Ethics Process, RT number 60811. Please take time to read the following information carefully. You should keep this page for your records.

Who are the researchers?

The lead researcher is Yibin Xia (s2196789@ed.ac.uk) and the supervisor is Nadin Kokciyan (nadin.kokciyan@ed.ac.uk).

What is the purpose of the study?

We developed an educational game using Unity to investigate people's privacy preferences when they are interacting with IoT devices (e.g., camera, smartwatch, smartphone) in different scenarios. Those scenarios can have different effect on people's attitudes (e.g., comfortable, uncomfortable) and decisions (e.g., approve or reject) towards data collections of IoT devices. In this study, we aim to find the most important factors that can influence those preferences by having the participants to play with the game and providing feedback. The study aims also to help participants acquire more knowledge about the functions of different IoT devices by giving participants a few quizzes and explanations in the form of second person narration.

Why have I been asked to take part?

We are looking for participants who have experience with college education, preferably a University of Edinburgh student with computer science major or taking relevant courses. We believe that you are capable of using or have experience with various kinds of IoT devices and could provide valuable feedback for our study.

Do I have to take part?



No – participation in this study is entirely up to you. You can withdraw from the study at any time, without giving a reason. After this point, personal data will be deleted and anonymised data will be combined such that it is impossible to remove individual information from the analysis. Your rights will not be affected. If you wish to withdraw, contact the PI. We will keep copies of your original consent, and of your withdrawal request.

What will happen if I decide to take part?

If you decide to take part, you will receive a link that you can download our game. Then you can follow the instructions we provided to play the game. In the game, firstly you will be asked to give a name. It doesn't need to be a real name, and any characters between length of 3 to 10 are fine. Then your account will be created and saved automatically. You will experience totally 75 different privacy scenarios by selecting 5 different locations. For each scenario, you will be asked questions about whether you are comfortable with and whether you allow the data collection in this scenario. Those preferences for each scenario will be collected and analysed in the study. There is also a mini-game embedded in this game you can play with and the score for the mini game will be recorded during the game. The duration will be approximately 20-30 minutes for the privacy question and as long as you want for the mini-game. After you finish the game, you may be asked to complete a questionnaire about your experience with the game. You can come back anytime by clicking the "continue" button in the start page of the game and loading the data with your name. The preference analysing results will be displayed when you finish the game.

Are there any risks associated with taking part?

There are no significant risks associated with participation.

Are there any benefits associated with taking part?

You may acquire knowledge about various kinds of IoT devices and have better understanding about your privacy preference when it comes to making privacy decisions.

What will happen to the results of this study?



The results of this study may be summarised in published articles, reports and presentations. Quotes or key findings will be anonymized: We will remove any information that could, in our assessment, allow anyone to identify you. With your consent, information can also be used for future research. Your data may be archived for a maximum of 1 year. All potentially identifiable data will be deleted within this timeframe if it has not already been deleted as part of anonymization.

Data protection and confidentiality.

Your data will be processed in accordance with Data Protection Law. All information collected about you will be kept strictly confidential. Your data will be referred to by a unique participant number rather than by name. Your data will only be viewed by the researcher/research team Yibin Xia, and his supervisor Nadin Kokciyan.

All electronic data will be stored on a password-protected encrypted computer, on the School of Informatics' secure file servers, or on the University's secure encrypted cloud storage services (DataShare, ownCloud, or Sharepoint) and all paper records will be stored in a locked filing cabinet in the PI's office. Your consent information will be kept separately from your responses in order to minimise risk.

What are my data protection rights?

The University of Edinburgh is a Data Controller for the information you provide. You have the right to access information held about you. Your right of access can be exercised in accordance Data Protection Law. You also have other rights including rights of correction, erasure and objection. For more details, including the right to lodge a complaint with the Information Commissioner's Office, please visit www.ico.org.uk. Questions, comments and requests about your personal data can also be sent to the University Data Protection Officer at dpo@ed.ac.uk.

Who can I contact?

If you have any further questions about the study, please contact the lead researcher, Yibin Xia <s2196789@ed.ac.uk>.

If you wish to make a complaint about the study, please contact inf-ethics@inf.ed.ac.uk. When you contact us, please provide the study title and detail the nature of your complaint.



Updated information.

If the research project changes in any way, an updated Participant Information Sheet will be made available on <http://web.inf.ed.ac.uk/infweb/research/study-updates>.

General information.

For general information about how we use your data, go to: edin.ac/privacy-research

