**Information Sheet for the MSc Data Science Project: Harmonic Synchronisation of hand gestures with visual displays**

Disclaimer

You are being invited to take part in a research project. Before you decided it is important for you to understand why the research is being done and what participation will involve. Please take time to read the following information carefully and discuss it with others if you wish. Ask us if there is anything that is not clear or if you would like more information. Take time to decide whether you wish to take part. Thank you for reading this.

Project Purpose

The purpose of this project is to understand how people can better use technical systems (TV, tablets, phones, and laptops) using hand gestures. This will be done using a webcam to track the user’s hands and determine whether they have carried out a particular hand gesture. In the case of this project this will include rotating the wrist and carrying out a grasping motion.

Why you have been chosen?

Inclusion criteria for this study is that the participant as a laptop with a webcam and do not have an impairment that prevents them from using both their hands.

Do you have to take part?

It is up to you to decide to whether or not to take part. If you do decide to part you will be given this information sheet to keep and asked to sign a consent form. You can withdraw at any time without if affecting any benefit that you are entitled to.

What do you have to do?

You will have a video call with the researcher whilst being asked to mimic displayed visual graphics on the screen at various speeds. These visual displays will include a circular widget rotating partially around another circle, you will mimic this display through ulnar and radial deviation of the hand. The other display will be a growing and shrinking circle, this will be mimicked by finger flexion and extension. **The camera will not record the participant.** The positions of the hand will be saved numerical values.

Risks

Prolonged movement of your arm may indue fatigue, the researcher will ask if you require a break between tasks. If you wish to take a break or stop participating at any point during the tasks the researcher will stop the study.

Complaints

If you wish to complain about how the study has been carried out you can contact the researcher’s supervisor, their email has been linked at the bottom of the document. If you feel as though you complain hasn’t been handled to your satisfaction you can contact the Computer Science department’s ethics officer (DREO). Their details have also been included at the bottom of this document.

Confidentiality

All the information that we collect about you during the research will be kept strictly confidential. You will not be able to be identified in any ensuing reports or publications.

What will happen to the results of the research project?

The results will be published with the entire project in early September 2021. The participant will be emailed a copy of the results and the project on this date. The participant will not be identifiable in any part of the research project.

Point of Contact

Please contact the researcher if you have any further questions.

Researcher:

Name: Torem Ozturk  
Email: [to365@bath.ac.uk](mailto:to365@bath.ac.uk)  
Number: 07454760745

Supervisor:

Name: Christopher Clarke  
Email: [cjc234@bath.ac.uk](mailto:cjc234@bath.ac.uk)

DREO:

Name: Simon Jones  
 Email: [cs3sj@bath.ac.uk](mailto:cs3sj@bath.ac.uk)