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**Experiment Information**

**You will be given a copy of this information sheet.**

Project Title: “**Real-time emotion recognition in VR**”

Experimenters: Jeremy Di Dio, Sruti Bhattacharjee

Thank you for the interest in participating in this experiment as your answers and experience will be invaluable for the study and improvement of Virtual Reality (VR) experiences. Your data will help us further understand and improve the VR user experience.

The objective of the study is to create a dataset of feature vectors for facial emotion detection in an immersive VR system (i.e. VR headset). More precisely, we aim to create a dataset to develop a ML model that can be used for real time emotion detection in VR.

# Important Information

This experiment intends to collect data in the form of facial feature vector based on different expressed emotions. Data will exclusively be used for research purposes without any commercial intentions. The data collected will not be sold to any third parties.

You may quit the experiment at any time without further explanation. It is also important to note that this experiment has no relation to medical, biomedical, or therapeutic research.

# Procedure

This study is composed of a unique session that will be lasting approximately 45 minutes.

The session consists of the following sequence:

1. General Explanation and Data Consent Information (5 min) :
   * + You will receive an explanation and familiarize yourself with the experiment and the various devices being used for data recording.
     + A consent form will be given to you explaining that all the data will be anonymized and used exclusively for research purposes.

1. Pre-Questionnaire (5 min)

1. Setting the VR devices (3 min):
   * The Head Mounted Display (HTC Vive Pro Eye) will be placed comfortably on your head.

1. Eye Calibration Software (3 min) :
   * The Eye calibration software will be performed allowing you to configure the headset parameters to the optimal visual solution.
2. Expression recording (20min)

1. Device Removal (2 min)
2. Post-Questionnaires (5 min)
3. End of Session !

# Privacy and data storage

All information collected and acquired from you, the participant, are strictly confidential and anonymous. The data will be used exclusively for research purposes. Results obtained from their analysis will be subject of scientific publications and will always respect participant anonymity.

**For additional information please carefully read the consent form.**

# Request for additional information

You may be requested additional information from the study or experiment responsible (e.g. such as general comments and feedback on the system itself).

# Potential advantages and disadvantages

This experience does not create any inconvenience. However, as it requires the use of computer screens, this experience may not be suitable for people with seizure disorders.

# Acquisition of the information

The information will be recorded directly through the computer and the physiological sensors, which may include the following:

HTC Vive Pro Eye ([https://www.vive.com/eu/product/vive-pro-eye/)](https://www.vive.com/eu/product/vive-pro-eye/)

HTC Vive Facial Tracker (<https://www.vive.com/eu/accessory/facial-tracker/>)

# Acquisition of other information

You will be asked to complete multiple questionnaires and interviews before and after the experiment.

# Additional Information

As an experimental participant you are agreeing to follow the exact instruction given by the experimenter and conform to the detailed study plan given.

Due to the nature of this experiment you may experience some adverse effects such as eye strain, headaches or nausea. Furthermore, the risk of being physically injured is low since the protocol ensures the physical safety of the participant as the participant will be sitting down during the entire experiment, and the devices used have been widely used for commercial and scientific study.