360° VQA Experiment

Experiment Scope

Thank you for participating in this study. Please read the instructions carefully before starting.

This study aims to determine how tiling and encoding affect 360° video quality of experience. Using a VR headset, you will watch 360° videos and score the visual quality of each video based on your overall experience.

Procedure

The experiment will last for approximately 20 min. It is divided into 6 sessions. Each session consists of 12 videos. We ask you to observe each video and, once it is finished, rate its overall quality using the VR controller. You should evaluate the quality of each 360° video using the following quality scale: 5. excellent; 4. very good; 3. fair; 2. poor; and 1. bad. After rating a video, the next one will automatically appear. During the test, you will be seated in a swivel chair, so you can freely rotate to explore the whole 360° content. You can remove the VR headset to rest between the sections if needed.

Before starting the formal test, you will do a training session with some example videos to familiarize yourself with the evaluation method and the interface, and to have a reference of the range of available qualities. During the training session, you can ask the experimenter to adjust the VR headset or any other questions you may have about the test procedure.

Finally, if you feel any persistent problems (headache, dizziness, etc.) during the test do not hesitate to indicate it to the experimenter.

Thanks for participating in this test!

Participant's Information

Answer the following **before** starting the experiment:

Participant Name _____

Participant Number _____

Age _____

Gender ☐ Male ☐ Female

Profession / Education _____

How many times have used VR before?

☐ Never ☐ Once ☐ 2-5 times ☐ +5 times

Answer the following **after** completing the experiment:

Did you experience dizziness, headaches, or discomfort during or after the experiment?

☐ YES ☐ NO

Some of the videos you watched have regions encoded at lower qualities than the rest of the video. Did this influence you to look at other (higher quality) parts?

☐ YES ☐ NO

Comments:

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