

Informed Consent Form

Evaluating different feedback with respect to underwater navigation

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Purpose of the study: The goal of this study is to understand how underwater environment affects the perception of several feedback methods and how pleasant they are. Therefore participants are asked to wear the prototype underwater and press a button every time a feedback signal is perceived. The time until the reaction is logged and a questionnaire will be handed out afterwards.

Procedure: Participation in this study involves two phases. Participants will be asked to take a shower before entering the pool. Then they are asked to swim for a few minutes to adapt to the water temperature (29-30 degrees). Afterwards the participants will put on the prototype including a snorkel, diving goggles with an attached LED, and headband with a cooling module and a vibration motor. Participants are then asked to submerge and push the button on the pool edge as soon as they perceive a feedback. This study should take about 60+ minutes to complete. The participant can decide how many iterations he wants to do.

After the study, we will ask you to fill out the questionnaire about the tested system. In this questionnaire, we will ask some general questions about your opinion regarding each method.

Risks/Discomfort: You may become fatigued during the course of your participation in the study. You will be given several opportunities to rest, and additional breaks are also possible. There are no other risks associated with participation in the study. Should completion of either the task or the questionnaire become distressing to you, it will be terminated immediately. You have opportunities to start swimming after taking off the prototype at anytime if you are getting too cold.

Benefits: The results of this study will be useful for further investigation in underwater navigation approaches.

Alternatives to Participation: Participation in this study is voluntary. You are free to withdraw or discontinue the participation.

Cost and Compensation: Participation in this study will involve no cost to you. There will be snacks and drinks for you during and after the participation. You will be paid for your participation.

Confidentiality: All information collected during the study period will be kept strictly confidential. You will be identified through identification numbers. No publications or reports from this project will include identifying information on any participant. If you agree to join this study, please sign your name below.

_____ I have read and understood the information on this form.

_____ I have had the information on this form explained to me.

Participant's Name

Participant's Signature

Date

Principal Investigator

Date

