

University of York

Listening test for evaluating the similarity between artificial reverberation algorithms and real reverberation

8th July 2021 (v1.1)

PROJECT INFORMATION SHEET

Thank you for agreeing to participate in this study. We are working to evaluate the similarity between different reverberation algorithms and real reverberation. Your participation is key to our research success.

You will be asked to confirm that as far as you are aware you have normal hearing and are not aware of any impairments. The listening test follows the MUSHRA (Multiple Stimuli with Hidden Reference and Anchor) paradigm, released online. The test materials consist of a solo cello piece, a male speech, a female singing and a drumbeat, rendered with different reverberation algorithms in different reverberation times as the test conditions. Test conditions also include an anchor source and a real reverberation source. The reference materials consist of the same audio samples, convolved with real binaural room impulse responses in different reverberation times as the reference conditions, same with the real reverberation audio in the test condition.

You will be asked to listen to the reference audio and test audio carefully, and judge the similarity between each test audio sample and the reference audio sample and score each test audio sample on a scale of zero to a hundred. The most important thing is that you need to compare which test audio is same as the reference audio and score a hundred, and the more similar the other condition audio samples are to the reference audio sample, the higher the score for them.

You are free to listen to each sound sample as many times as you like, and you can go back to previous samples that you have responded to and respond again if you change your mind.

If you have any questions about the process, or how your data will be used, please do not hesitate to ask. Further, if you wish to withdraw from the study, you are free to do so at any point. Please note that any data collected up to the point of withdrawal will be collected. Contact details are provided opposite for your convenience.

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Many thanks,
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