

## **Perception of Audio Quality INFORMATION SHEET**

(GU Ref No.: 2018/671)

### **Research Team**

Prof. Kuldip Paliwal  
(07) 3735 3754  
[k.paliwal@griffith.edu.au](mailto:k.paliwal@griffith.edu.au)

Miss Sisi Shi  
(07) 3735 3754  
[sisi.shi@griffithuni.edu.au](mailto:sisi.shi@griffithuni.edu.au)

Mr. Timothy Roberts  
(07) 3735 3754  
[timothy.roberts@griffithuni.edu.au](mailto:timothy.roberts@griffithuni.edu.au)

Mr. Sujan K. Roy  
(07) 3735 3754  
[sujankumar.roy@griffithuni.edu.au](mailto:sujankumar.roy@griffithuni.edu.au)

Mr. Aaron Nicolson  
(07) 3735 3754  
[aaron.nicolson@griffithuni.edu.au](mailto:aaron.nicolson@griffithuni.edu.au)

School of Engineering and the Built  
Environment

### **Why is the research being conducted?**

Digital Signal Processing is a well-researched area in which human perception of quality is an integral part of determining the quality of proposed algorithms. To quantify the quality of an algorithm, participants are asked to rate the quality of the resulting audio. Statistical analysis can then be done on the resulting quality assessments. The research that you are about to be involved with is being undertaken as part of post-graduate research.

### **What you will be asked to do**

As part of this research, you will be asked to rate the quality of a series of audio files. You will be presented with a graphical interface containing buttons to play back the processed and source audio files, a slider to rate the quality, and a button to progress to the next audio file. Each set of testing runs for approximately 20 minutes. If you elect to participate in rating multiple different sets, there is a required 20-minute gap between tests. The research will be conducted in the Signal Processing Lab, or a similar quiet room.

### **The basis by which participants will be selected or screened**

Participants have been selected based on their background in fields such as Digital Signal Processing, Music Technology and critical listening. Specific training will be given before the subjective testing begins.

### **The expected benefits of the research**

This research will directly benefit researchers in the field of digital signal processing. In order to publish a new method of signal processing for speech or general audio, subjective testing to validate the method must occur. As a result, this testing will benefit the researchers by giving weight to their proposed method.

### **Risks to you**

In this research, there is a very low level of participant risk. The main risk involved with this testing is hearing damage. To mitigate this risk, you will have the ability to set the volume to a safe and comfortable level. The level of the audio playback has been normalised, removing variability of volume.

### **Your confidentiality**

Information collected during testing will be identifiable to you, however you will not be identifiable when the research is published. Your first name will be used to differentiate between participant responses, and your email address (optional) will only be used to inform you of the publication of the research. The information will be stored within the university email system and the researcher's password protected computer for a period of five years, before being destroyed.

### **Your participation is voluntary**

Your participation in this research is voluntary. You are free to withdraw from the research at any time.

### **Use of research results**

The results of this research will be reported in an academic thesis as well as in journal articles and/or conference presentations.

### **Questions / further information**

For any questions or further information, please contact the research team using the information listed above.

### **The ethical conduct of this research**

This research at Griffith University is being conducted in accordance with the *National Statement on Ethical Conduct in Human Research*. If you have any concerns or complaints about the ethical conduct of the research project please contact the Manager, Research Ethics on 3735 4375 or [research-ethics@griffith.edu.au](mailto:research-ethics@griffith.edu.au).

### **Feedback to you**

As mentioned previously, you have the option of requesting notification on the publication of this research, by supplying your email address.

### **Privacy Statement – non disclosure**

“The conduct of this research involves the collection, access and/or use of your identified personal information. The information collected is confidential and will not be disclosed to third parties without your consent, except to meet government, legal or other regulatory authority requirements. A de-identified copy of this data may be used for other research purposes. However, your anonymity will at all times be safeguarded. For further information consult the University's Privacy Plan at <http://www.griffith.edu.au/about-griffith/plans-publications/griffith-university-privacy-plan> or telephone (07) 3735 4375.”

## Perception of Audio Quality CONSENT FORM

(GU Ref No.: 2018/671)

**Research  
Team**

Prof. Kuldip Paliwal  
(07) 3735 3754  
[k.paliwal@griffith.edu.au](mailto:k.paliwal@griffith.edu.au)

Miss Sisi Shi  
(07) 3735 3754  
[sisi.shi@griffithuni.edu.au](mailto:sisi.shi@griffithuni.edu.au)

Mr. Timothy Roberts  
(07) 3735 3754  
[timothy.roberts@griffithuni.edu.au](mailto:timothy.roberts@griffithuni.edu.au)

Mr. Sujan K. Roy  
(07) 3735 3754  
[sujankumar.roy@griffithuni.edu.au](mailto:sujankumar.roy@griffithuni.edu.au)

Mr. Aaron Nicolson  
(07) 3735 3754  
[aaron.nicolson@griffithuni.edu.au](mailto:aaron.nicolson@griffithuni.edu.au)

School of Engineering and the Built  
Environment

By signing below, I confirm that I have read and understood the information package and in particular:

- I understand that my involvement in this research will include subjective quality analysis of audio files, in sets of approximately 20 minutes;
- I have had any questions answered to my satisfaction;
- I understand the risks involved;
- I understand that there will be no direct benefit to me from my participation in this research;
- I understand that my participation in this research is voluntary;
- I understand that if I have any additional questions I can contact the research team;
- I understand that I am free to withdraw at any time, without explanation or penalty;
- I understand that my name and other personal information that could identify me will be removed in publications or presentations resulting from this research;
- I understand that I can contact the Manager, Research Ethics, at Griffith University Human Research Ethics Committee on 3735 4375 (or [research-ethics@griffith.edu.au](mailto:research-ethics@griffith.edu.au)) if I have any concerns about the ethical conduct of the project; and
- I agree to participate in the project.

<b>Name</b>	
<b>Signature</b>	
<b>Date</b>	