###### Public speaking training in front of an imaginary or virtual audience: A randomized controlled trial ######

Authors: Ni Kang, Ding Ding, Dwi Hartanto, Willem-Paul Brinkman, Mark A. Neerincx

Corresponding author: Ding Ding,

Contact Information: d.ding-1@tudelft.nl

Department of Intelligent Systems | Interactive Intelligence Group, Delft University of Technology

Van Mourik Broekmanweg 6

2628 XE Delft

The Netherlands

###### General Introduction ######

This dataset contains data collected in an experiment which studied two practicing techniques for enhancing speech performance and people’s training satisfaction at Delft University of Technology. It is being made public to act as supplementary data for the paper published in 24rd Annual CyberPsychology, CyberTherapy & Social Networking Conference and in order for other researchers to use this data in their own work.

###### Purpose of the experiment ######

The experiment was conducted to compare practicing in front of a virtual audience with another practicing technique whereby the presenter had to imagine an audience while practicing.

###### Description of the dataset and the data in this dataset######

Beside this readme file, this dataset included another three files: 1) The data file (the data collected in the study), 2) The R script for analysis the data, and 3) The output of the R analysis. 4) The figures of analysis of the results. The following is the introduction of each file.

1. The data file (the data collected in the study)

It is an empirical study to compare practicing in front of a virtual audience with another practicing technique, approved by University Human Research Ethics Committee, conducted in TU Delft.

The data-specific information is as follow,

## file name: PS training data.csv

## column names:

# ID: participants ID number

# cond: the training conditions that participants joined

# age: ages of participants

# PRCS: Personal report of confidence as a speaker

# confidence\_pre: self-efficacy when registered as a participant

# confidence\_S1\_pre: self-efficacy before Session I

# confidence\_S1\_post: self-efficacy after Session I

# presence\_1\_S1: presence response Q1 in Session 1

# presence\_2\_S1: presence response Q2 in Session 1

# presence\_3\_S1: presence response Q3 in Session 1

# confidence\_S2\_pre: self-efficacy before Session 2

# confidence\_S2\_post: self-efficacy after Session 2

# presence\_1\_S2: Presence response \_Q1 Session 2

# presence\_2\_S2: Presence response \_Q2 Session 2

# presence\_3\_S2: Presence response \_Q3 Session 2

# confidence\_S3\_pre: self-efficacy before Session 3

# confidence\_S3\_post: self-efficacy after Session 3

# presence\_1\_S3: Presence response \_Q1 Session 3

# presence\_2\_S3: Presence response \_Q2 Session 3

# presence\_3\_S3: Presence response \_Q3 Session 3

# presence\_1\_S4: Presence response \_Q1 Closing Presentation

# presence\_2\_S4: Presence response \_Q2 Closing Presentation

# presence\_3\_S4: Presence response \_Q3 Closing Presentation

# Q47\_1: Utility Questionnaire Q1

# Q47\_2: Utility Questionnaire Q2

# Q47\_3: Utility Questionnaire Q3

# Q47\_4: Utility Questionnaire Q4

# Q47\_5: Utility Questionnaire Q5

# Q47\_6: Utility Questionnaire Q6

# Q47\_7: Utility Questionnaire Q7

# Q47\_8: Utility Questionnaire Q8

# Q47\_9: Utility Questionnaire Q9

# Q47\_10: Utility Questionnaire Q10

# Q47\_11: Utility Questionnaire Q11

# Q47\_12: Utility Questionnaire Q12

# SE\_S4\_pre: self-efficacy before Closing Presentation

# SE\_S4\_post: self-efficacy after Closing Presentation

# HR\_S1: average Heart rate Session 1

# SUD\_S1: average SUD Session1

# HR\_S2: average Heart rate Session 2

# SUD\_S2: average SUD Session2

# HR\_S3: average Heart rate Session 3

# SUD\_S3: average SUD Session3

# HR\_S4: average Heart rate Closing Presentation

# SUD\_S4: average SUD Closing Presentation

# Q1: answer time Q1 Closing Presentation

# Q2: answer time Q2 Closing Presentation

# Q3: answer time Q3 Closing Presentation

# Q4: answer time Q4 Closing Presentation

1. The R script for analysis the data

The R script includes the R code of the analysis conducted for the paper for CYPSY2019: Public speaking training in front of an imaginary or virtual audience: A randomized controlled trial.

1. The figures of analysis of the results

The figures include 1). Mean scores of SUD reported in practice sessions and the final presentation, 2). the maximum SUD score reported in practice sessions and the final presentation. 3). Mean of heart rates in different sessions and the final presentation, 4). Lengths of answers to the four questions asked in the closing presentation, 5). Pre-measurement versus post-measurement of self-efficacy during the course.

1. The output of the analysis

After running the script in R, all the analysis results have been stored in this file. Through this file, the reader should be able to find all the results of the analysis we done and the data we published in the paper.