

## Announcement

08.01.2020

BACHELOR THESIS:

# Subjective Evaluation of Speech Quality using DCR and CCR Procedures

### DESCRIPTION

Subjective assessment of speech quality is commonly performed in Laboratory environment following the ITU-T P.800 Recommendation. During the listening-only test sessions degraded (and depending to the procedure reference) speech signals are presented to the participants, and they are ask to give their opinion on the overall quality of signal on a specific scale. Each stimulus will be presented to couple of participants (+ 25). Three well-known procedures are Absolute Category Rating (ACR), Degradation Category Rating (DCR), and Comparison Category Rating (CCR).

In this thesis, the candidate should conduct subjective tests following DCR and CCR method in the laboratory environment. The software package for conducting the experiment, and speech dataset will be provided. In addition, he/she should aggregate the collected data from all participants and perform basic statistical tests. Results should be reported in the thesis.

The experiments will be carried out in the thesis will be in German, so German communication skills with test participants are required.

### REQUIREMENTS

- Knowledge in speech quality (e.g. via the course Usability Engineering)
- Great interest to the topic and well organized

### CONTACT

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(Deadline: 31.01.2020)