BSc/MSc-project

Title: “Developing a continuous speech test for hearing assessment”

Description:
Diagnosis of hearing loss and fitting of hearing aids uses speech tests to evaluate how well the patient understands speech, e.g. with a particular hearing aid setting. Standard tests used in hearing clinics today typically presents spoken sentences in noise and afterwards collects a word recognition score from the listener. However, it is often needed to evaluate hearing *during* continuous listening. The purpose of this project is to develop a new Danish speech test where a response is collected from the listener during listening. The test is implemented as a sequences of spoken numbers. The project will conduct tests with human listeners to validate the speech material and to develop and evaluate the continuous speech test.

Required qualifications:
Knowledge about psychoacoustic testing and hearing impairment. Experience with Matlab or similar language.

Responsible institution:
Hearing Systems group, Department of Electrical Engineering, Technical University of Denmark

Contact information:
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Allowed no of students per report: 1

Suggested DTU supervisor:
Jens Hjortkjær, Jens Bo Nielsen