

Master Thesis title / MAL izenburua

Direct speech synthesis from EMG data

Proposer(s) / Proposatzailea(k): names / izenak

Eva Navas Cordón, Inma Hernández Rioja

Contact / Kontaktua: email

Eva.navas@ehu.eus inma.hernaez@ehu.eus

Description / Deskribapena

Silent speech interfaces allow the generation of acoustic speech from articulatory data obtained from some sensors. In this master thesis we propose to develop a Neural Network based system able to produce speech from Electromiographic data. These data will come from a free available database (<https://www.uni-bremen.de/en/csl/research/silent-speech-communication/>).

Goals / Helburuak

Obtaining natural sounding speech from EMG data.

Requirements / Betebeharrak

Basic knowledge of Neural Networks and some experience in python programming is mandatory.

Framework / Esparrua

The student will be working with the Aholab team and will have the opportunity to work with powerful GPUs. He or she will be enjoying the periodical meetings and seminars in a collaborative working environment.

Tasks and plan / Atazak eta plana

- Study of existing systems and alternatives
- Obtaining and preparing data
- Networks design and train
- Evaluation
- Documentation