Voice restoration with Silent Speech Interfaces based on Electro-Myographic signals

CONTACT INFO

Prof. Inma Hernáez & Eva Navasmailto:inma.hernaez@ehu.eus

Department of Communication Engineering

University of the Basque Country (UPV/EHU)

https://aholab.ehu.eus

DESCRIPTION

In recent years, Silent Speech Interfaces (SSIs) have emerged as a promising alternative to restore oral communication by decoding speech from non-acoustic (silent) speech-related biosignals generated during speech production. Electromyography (EMG) which captures facial muscle activity using surface electrodes, offers a fundamentally new solution to restore communication capabilities to speech-disabled persons. In the framework of the ReSSInt project (ressint.eus), acquired EMG signals will be used to recognize the message. The main task for the candidate will be to implement a EMG-to-Text system based on existing ASR architectures. We offer a 9 month 75% part-time contract.

CANDIDATE BACKGROUND

The candidate should preferably have a BSc degree in telecommunications engineering, mathematics, physics, or computer science, and a MSc. in communications, signal processing or machine learning. Outstanding curriculum vitae, good programming abilities, strong motivation, team working skills, and fluent spoken and written English will be highly appreciated.

APPLICATION

The candidate should send an e-mail in English to inma.hernaez@ehu.eus with a CV and a brief description of the applicant particular merits to get the position. All applications will be evaluated. Open until filled.