

Master Thesis

Speech recognition system for Modern Standard Arabic and dialects

Motivation

Many Arabic-speaking refugees have communication difficulties due to the language barrier, which makes doctor visits without the presence of an interpreter practically impossible. Due to the high demand for Arabic-German interpreters and the lack of qualified persons for the psychiatric field, the ISL are developing a translation system specially tailored to this specific domain. The first step of the system is speech recognition. Since not all speakers speak the modern standard Arabic, a system should adapt automatically to the dialect of the speaker online and in real-time.

Goal:

 Development of multi-dialectal speech recognition for Modern Standard Arabic and Dialects with state-of-the-art methods and adaptation of the system to dialects online and offline.

Task:

- Literature research on state of the art technology.
- · Train and test the most promising architectures.

Qualifications:

- Good Knowledge of machine learning and neural networks.
- Arabic as mother tongue or similar level is advantageous.

Interested?

Send your application to:

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