Postdoc proposal
Spontaneous Speech Recognition.
Application to Situated Corpora in French.

August 23, 2019

1 Postdoc Subject

The goal of the project is to advance the state-of-the-art in spontaneous automatic speech recognition (ASR). Recent advances in ASR show excellent performances on tasks such as read speech ASR (Librispeech), TV shows (MGB challenge), but what about spontaneous communicative speech ?

This postdoc project would leverage existing transcribed corpora in French (more than 300 hours) recorded in everyday communication (speech recordings inside a family, in a shop, during an interview, etc.). One impact of the project would be the automatization of transcription on very challenging data in order to feed linguistic and phonetic studies at scale.

Research topics:

- End-to-end ASR models

- Spontaneous speech ASR

- Colloquial speech transcription

- Data augmentation for spontaneous and colloquial language modelling

- Transcribing situated corpora

2 Requirements

We are looking for an outstanding and highly motivated postdoc candidate to work on this subject. Following requirements are mandatory:

- PhD degree in natural language processing or speech processing.

- Excellent programming skills (mostly in Python and deep learning frameworks).

- Interest in pluri-disciplinary research (speech technology and speech science)

- Good oral and written communication in English (French is a plus while not mandatory)

- Ability to work autonomously and in collaboration with other team members.

3   Work context

Grenoble Alpes Univ. offers an excellent research environment with ample computing facilities, as well as remarkable surroundings to explore over the weekends. The postdoc project will be funded by the Grenoble Artificial Intelligence Institute (MIAI). The candidate will work both at LIG-lab (GETALP team) and LIDILEM-lab. The duration of the postdoc is 18 months.

4   How to apply?

Applications should include a detailed CV; a copy of the last diploma; at least two references (people likely to be contacted); a cover letter of one page; a one-page summary of the PhD thesis. Applications should be sent to laurent.besacier@imag.fr Applications will be evaluated as they are received: the position is open until it is filled, with deadline on September 30th, 2019.