

TQE: Transcription Quality Evaluation

A CLARIN-NL project

Radboud University Nijmegen



Institute for Dutch Lexicology



This project is funded by CLARIN-NL

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Max Planck Institute for Psycholinguistics



Team & CLARIN Center

□ Project team:

- CLST: Centre for Language and Speech Technology
- Helmer Strik (coord.)
- INL: Instituut voor Nederlandse Lexicologie
- Remco van Veenendaal
- MPI: Max Planck Institute for Psycholinguistics
- Daan Broeder

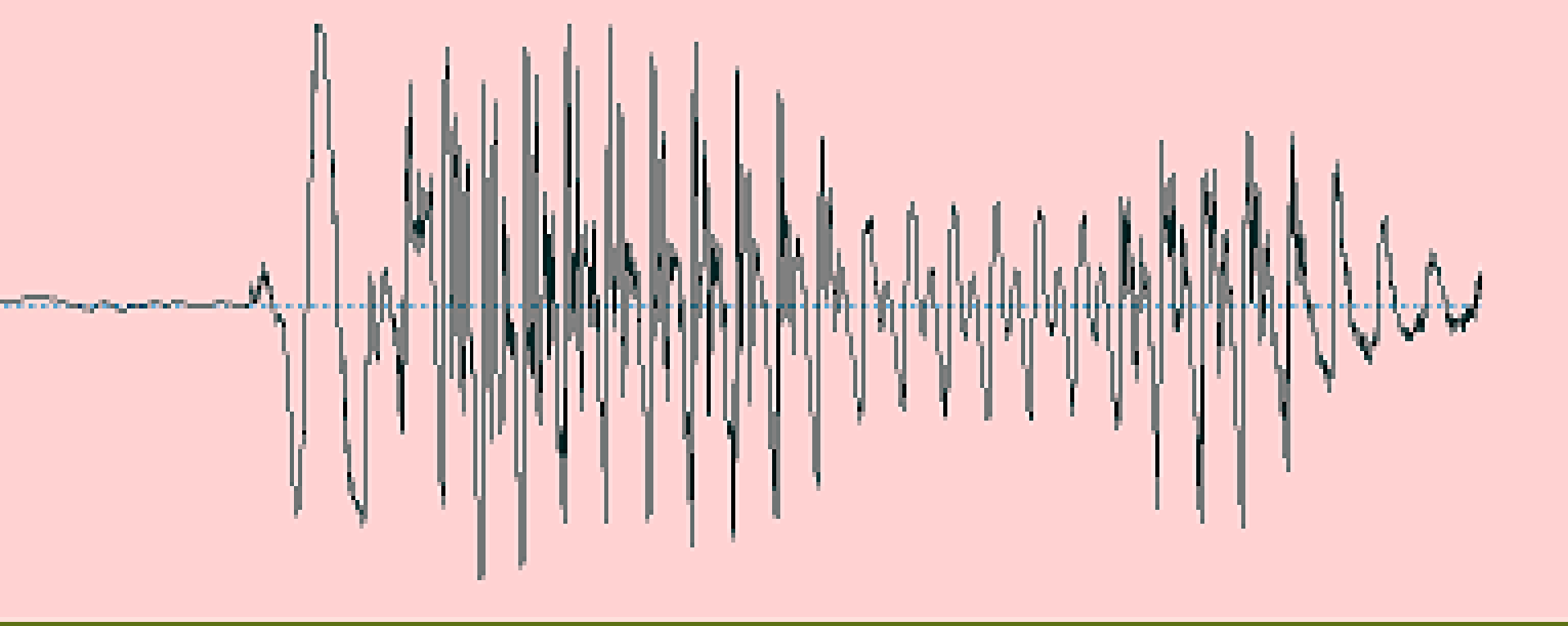
□ CLARIN centre

- MPI
- Daan Broeder

TQE: practical information

- Start Date: 01-04-2010
- End Date: 01-10-2010
- Type: Demonstrator Project
- The project will start with
 - a user survey and
 - a technology survey

Depending on the outcomes of these surveys details regarding the plan will be finalized.



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Automatic Transcription Quality Evaluation

- Input:
 - Audio signals
 - Phone(tic) transcriptions
- Output:
 - For each phone: a TQE measure
- How:
 - Audio and phonetic transcriptions are aligned
 - Phone boundaries are derived
 - For each phone a TQE measure is determined, a confidence measure, e.g. ranging from 0-100% indicating how well the phone and the segment ‘fit together’, i.e. what the quality of the transcription is

Deliverables

- D1: results of the user survey and the implications for (the development of) the TQE tool
- D2: software and the metadata for selected subsets of JASMIN and CGN
- D3: demonstrator (software)
- D4: document in which experiences, findings, and information on how to comply with current CLARIN-NL and CLARIN standards and desiderata for the CLARIN infrastructure are clearly presented (incl. results of technical survey)

Applications, research questions

The TQE tool can be usefully applied in all research in which audio and phone transcriptions (PTs) are involved (in humanities and L&ST)

E.g. it can be used to address the following research questions:

How to validate PTs?
How to detect phones or words that are realized differently?
How to select utterances for research?
First QE means PTs automatically for the whole corpus
For instance, if the PTs of standard (e.g. canonical) pronunciations are provided, the QEs measure will indicate which parts deviate from the provided standard and can be used to improve other automatic PTs.

THE END