

Speech Recognition Assignment

General

For practical assignment of the speech recognition part of the HMI course, you have to perform the following:

- Form a pair with a fellow student
- Create a speech recognition application
- Test the application with the test set
- Write a paper to report on your findings

Application

- For the application you can use an existing speech recognition frame work, either stand-alone or service-based
- Make sure you can feed the application individual test sentences such as present in the test set
- Make sure you can evaluate the results based on the metrics as described further on
- Make sure your application runs on the day of delivery

Evaluation metrics

For the evaluation of you application you have to use at least the following metrics:

- Real Time Factor (RTF), Word Error Rate (WER), and Word Correct Rate (WCR)
- The micro and macro averages of the Recall and Precision and the F-score

Paper

You write your paper in English (and preferably in LaTeX) and provide at least the following:

- Title and Authors
- Abstract
- Introduction
- Description of the application including the technique used by the underlying framework
- Experimental set-up
- Results
- Discussion
- Conclusion
- References

Delivery

- You have to hand in the paper in pdf on the vlo before **Sunday December 22 2019 23:59**
- You have to bring your (functional) application to the delivery class on Monday January 6 2020