

ASR Coursework Lab 2017–2018

Feedback for: s1572156, s1778365

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Total Mark: 81/100

1 Monophone models

1.1 Number of Gaussian mixture components [11/15]

- Design of experiment
 - Range and resolution of the number of Gaussians is very good
 - The optimal number of Gaussians is reported
 - Log likelihoods on training and test sets are not reported
 - Run time is not reported
- Presentation of results
 - Experimental conditions shown clearly, allowing reproduction of experiments
 - The results are very well summarised with graphs/tables
- Discussions and quality of report
 - Theory and experimental points are described, reported and discussed well
 - More thorough discussions would result in a higher mark
 - Easy to read
 - The structure of the report is clear
 - Very good abstract and introduction

1.2 Different acoustic features [14/15]

- Design of experiment
 - The design of the experiment is very good
- Presentation of results
 - What is the dimensionality of the features used in this task?
 - The results are well summarised
- Discussions
 - Theory and experimental points are described, reported and discussed very well

1.3 Dynamic features [9/10]

- Design of experiment
 - The design of the experiment is good
 - Adding an experiment for delta features would be good
- Presentation of results
 - The results are very well summarised with graphs/tables
- Discussions
 - Theory and experimental points are described, reported and discussed very well

1.4 CMN/CVN [7/10]

- Design of experiment
 - The design of the experiment is good
 - Adding an experiment without any normalisation technique would be good
- Presentation of results
 - The results are very well summarised with graphs/tables
- Discussions
 - Theory and experimental points are described, reported and discussed well
 - You should specify what is your default setting in this experiment, otherwise it is not clear

2 Tied-state triphone models [19/25]

- Design of experiments
 - The design of the experiment is very good
 - Range and resolution of the number of Gaussians is very good
 - Range and resolution of the number of clusters is very good
 - The actual optimal number of Gaussians and the optimal number of clusters are reported
 - Likelihoods and runtime not reported
- Presentation of results
 - Experimental conditions shown clearly (adding information about the type of features used, their dimensionality, normalisation approach would be good)
- Discussions
 - Theory and experimental points are described, reported and discussed very well

3 Advanced tasks [21/25]

3.1 Gender dependent models

- Design of experiment
 - The design of the experiment is very good
- Presentation of results
 - The results are very well summarised with graphs/tables
- Discussions
 - Theory and experimental points are described, reported and discussed very well

3.2 Feature transformation and speaker adaptive training

- Design of experiment
 - The design of the experiment is very good
- Presentation of results
 - The results are well summarised
- Discussions
 - Theory and experimental points are described, reported and discussed well
 - More thorough discussions would result in a higher mark