

National Taiwan University

Digital Speech Processing: Report #2

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1 Introduction

Using HTK toolkit (HCompV, HCopy, HHed, HERest...) to build the HMM models of continuous signal and test the accuracy.

2 Environment

- OS : Linux mint 17.2 Rafaela
- Kernel : x86_64 Linux 3.16.0-38-generic
- Shell : zsh 5.0.2

3 Steps

1. Run all shellscrips
(00_clean_all.sh, 01_run_HCopy.sh, 02_run_HCompV.sh, 03_training.sh, 04_testing.sh)
2. Check accuracy in /result if it's 74.34
3. Change the data in "proto" to increase states and "mix2_10.hed" to increase Gaussian mixtures.
4. Maximize the accuracy.

4 Result

After running all the five shellscrips, I just change the number of states to 10, and increase the number of Gaussian mixtures to 12, then I get the accuracy "95.97".

I found that the number of iteration does not effect a lot, so I didn't optimize it.