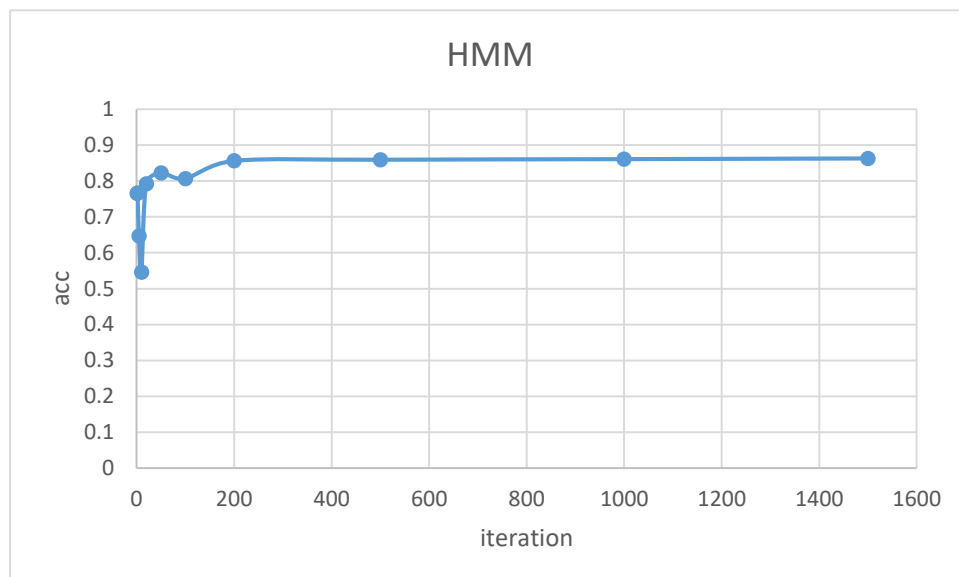電機二　B06505022　袁肇謙

DSP HW1 Report

- Environment
    - unbuntu18.04 on virtualbox with 4096MB memory
    - gcc version7.3.0

- How to execute
    - generating train and test: make
    - training: ./train iteration model_init.txt seq_model.txt model.txt
    - testing: ./test modellist.txt testing_data.txt result.txt

- Summary

iteration	1	2	5	10	20	50	100	200	500	1000	1500
accuracy	0.7652	0.7664	0.6468	0.546	0.792	0.8224	0.8068	0.856	0.8592	0.8608	0.8628

From the chart shown above, we can observe that accuracy and iteration are not absolutely positively correlated. The accuracy dropped when the iteration is around 10. As the iteration increased, the accuracy seemed to converge to 0.86.