

Report

ECE 477 Computer Audition

Meiying Chen

Homework 5

Nov. 1, 2019

LSTM

Training Code: layers.py, Model_RNN.py

Testing Code: test.py, main.m, bss_eval_sources.m

Files: separate_RNN.py, savedModel_RNN_best.py

Last several epocs(mse loss):

epoch : 95, loss 2.1291737084538909e-07: 100%|██████████| 60/60 [01:44<00:00, 1.74s/it]

validation Loss = 2.5829e-07

epoch : 96, loss 2.1117703852269187e-07: 100%|██████████| 60/60 [01:45<00:00, 1.75s/it]

validation Loss = 2.5808e-07

epoch : 97, loss 2.077462539773478e-07: 100%|███████████| 60/60 [01:47<00:00, 1.79s/it]

validation Loss = 2.5790e-07

epoch : 98, loss 2.1009262241022952e-07: 100%|██████████| 60/60 [01:45<00:00, 1.76s/it]

validation Loss = 2.5598e-07

epoch : 99, loss 2.0908530018459714e-07: 100%|██████████| 60/60 [01:45<00:00, 1.76s/it]

SNR:[illegible]

FCNN

Training Code: Model_fcnn.py

Testing Code: test.py, main.m, bss_eval_sources.m

Files: separate_fcnn.py, savedModel_fcnn_best.py

SDR:

[illegible]