

Part 1: WSJ database

VAD(5.5)

lstm_joint_f: 0.92

lstm_joint_g: 0.89

lstm_joint_i: 0.67

lstm_joint_ifo: 0.62

lstm_joint_ifog: 0.57

lstm_joint_o: 0.96

lstm_spk_a: 2.71

VAD(3)

lstm_joint_f: 0.92

lstm_joint_g: 0.90

lstm_joint_i: 0.71

lstm_joint_ifo: 0.52

lstm_joint_ifog: 0.58

lstm_joint_o: 1.03

lstm_spk_a: 4.72

No_VAD

lstm_joint_f: 1.36

lstm_joint_g: 1.16

lstm_joint_i: 1.29

lstm_joint_ifo: 1.22

lstm_joint_ifog: 1.08

lstm_joint_o: 1.49

lstm_spk_a: 5.22

Part 2: SWBD Eval2000

model_wsj

VAD(5.5)

lstm_spk_a: 24.67

lstm_joint_i: 22.29

lstm_joint_g: 22.73

VAD(3)

lstm_spk_a: 24.68

lstm_joint_i: 21.32

lstm_joint_g: 21.56

No_VAD

lstm_spk_a: 25.63

lstm_joint_i: 21.04

lstm_joint_g: 21.18

model_swbd

VAD(5.5)

lstm_joint_i_enhance: 20.57

lstm_joint_g_enhance: 21.37

VAD(3)

lstm_joint_i_enhance: 18.66

lstm_joint_g_enhance: 18.10

No_VAD

lstm_joint_i_enhance: 18.14

lstm_joint_g_enhance: 19.10

model_fisher

VAD(5.5)

lstm_spk_a: 14.95
lstm_spk_a_enhance: 15.95
lstm_joint_i_enhance_spk: 12.29
lstm_joint_g_enhance_spk: 12.68

VAD(3)

lstm_spk_a: 15.95
lstm_spk_a_enhance: 16.82
lstm_joint_i_enhance_spk: 10.90
lstm_joint_g_enhance_spk: 11.63

No_VAD

lstm_spk_a: 17.72
lstm_spk_a_enhance: 18.43
lstm_joint_i_enhance_spk: 10.60
lstm_joint_g_enhance_spk: 11.73

model_fisher_swbd

VAD(5.5)

lstm_spk_partial_279: 16.08
lstm_joint_i_partial_rand_ark_558: 12.01
lstm_joint_i_partial_rand_ark_558_enhance: 12.14
lstm_joint_i_partial_rand_ark_837: 12.04
lstm_joint_i_partial_rand_ark_all: 12.85
lstm_joint_g_partial_rand_ark_558: 10.91
lstm_joint_g_partial_rand_ark_558_enhance: 11.57
lstm_joint_g_partial_rand_ark_837: 11.43
lstm_joint_g_partial_rand_ark_all: 13.04

VAD(3)

lstm_spk_partial_279: 18.10
lstm_joint_i_partial_rand_ark_558: 11.09
lstm_joint_i_partial_rand_ark_558_enhance: 11.39

lstm_joint_i_partial_rand_ark_837: 10.54
lstm_joint_i_partial_rand_ark_all: 11.13
lstm_joint_g_partial_rand_ark_558: 10.85
lstm_joint_g_partial_rand_ark_558_enhance: 10.79
lstm_joint_g_partial_rand_ark_837: 11.07
lstm_joint_g_partial_rand_ark_all: 12.05

No_VAD

lstm_spk_partial_279: 20.28
lstm_joint_i_partial_rand_ark_558: 11.26
lstm_joint_i_partial_rand_ark_558_enhance: 11.75
lstm_joint_i_partial_rand_ark_837: 10.22
lstm_joint_i_partial_rand_ark_all: 10.64
lstm_joint_g_partial_rand_ark_558: 11.39
lstm_joint_g_partial_rand_ark_558_enhance: 11.50
lstm_joint_g_partial_rand_ark_837: 11.63
lstm_joint_g_partial_rand_ark_all: 12.03