Results of emotion recognition on improved speechflow

No.	Factors			Test Sets		
	Content	Rhythm	Pitch	MSP-IMPROV	IEMOCAP_test	IEMOCAP_all
1	-	-	-	39.65	32.81	35.63
2	\checkmark	\checkmark	\checkmark	37.21	33.56	33.27
3	×	×	×	27.34	25.00	19.16
4	\checkmark	×	×	33.22	36.02	37.72
5	×	\checkmark	×	36.68	35.02	36.59
6	×	×	\checkmark	28.26	36.43	32.30
7	\checkmark	\checkmark	×	37.39	33.30	35.25
8	\checkmark	×	\checkmark	34.34	31.42	32.37
9	×	\checkmark	\checkmark	35.98	29.09	33.28

Training with MSP-IMPROV and test on all IEMOCAP

Emotion recognition training with pulled training sets

Training set	ΙΕΜΟCAP	MSP-IMPROV
IEMOCAP	59.08	28.14
MSP-IMPROV	32.81	37.21
Pulled	51.19	38.12

Mutual information between corpus labels and classification results

No.	Factors			
	Content	Rhythm	Pitch	MI
1	\checkmark	\checkmark	\checkmark	0.9471
2	\checkmark	×	×	0.9216
3	×	\checkmark	×	0.3505
4	×	×	\checkmark	0.6276
5	\checkmark	\checkmark	×	0.9544
6	\checkmark	×	\checkmark	0.9471
7	×	\checkmark	\checkmark	0.6772

越大越容易区分

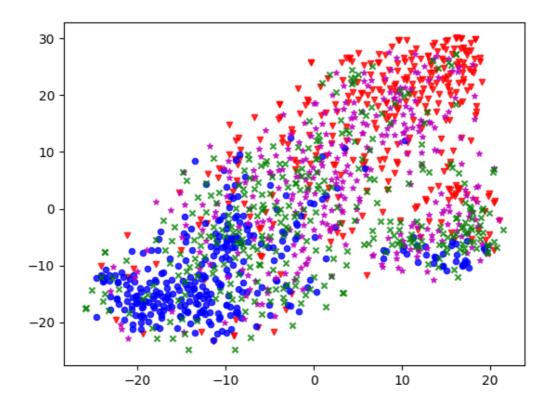
Mutual information between emotion labels and classification results in one corpus

No.	Factors			MI in one corpus
	Content	Rhythm	Pitch	
1	\checkmark	\checkmark	\checkmark	0.7342
2	\checkmark	×	×	0.6857
3	×	\checkmark	×	0.3755
4	×	×	\checkmark	0.5993
5	\checkmark	\checkmark	×	0.7019
6	\checkmark	×	\checkmark	0.7342
7	×	\checkmark	\checkmark	0.6263

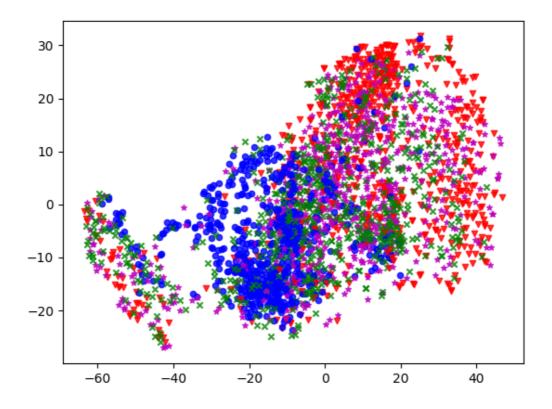
t-SNE of embeddings for emotion

(red: angry, blue: sad, purple: happy, green: neutral)

content



rhythm



pitch

