

ASR performance prediction on unseen broadcast programs using convolutional neural networks

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► To cite this version:

Zied Elloumi, Laurent Besacier, Olivier Galibert, Juliette Kahn, Benjamin Lecouteux. ASR performance prediction on unseen broadcast programs using convolutional neural networks. ICASSP, 2018, Alberta, Canada. hal-02088829

HAL Id: hal-02088829 https://hal.science/hal-02088829v1

Submitted on 3 Apr 2019

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	Input	MAE	τ		
Textual features					
	POS+LEX+LM	22.01	44.16		
ax	EMBED	21.48	38.91		
	EMBED	22.30	38.13		
Signal features					
	SIG	25.86	23.36		
ax	RAW-SIG	25.97	23.61		
	RAW-SIG	26.90	21.26		
ax	MEL-SPEC	29.11	19.76		
	MEL-SPEC	26.07	24.29		
ax	MFCC	25.52	26.63		
	MFCC	26.17	25.41		
Textual and Signal features					
	POS+LEX+LM+SIG	21.99	45.82		
ax	EMBED+RAW-SIG	19.24	46.83		
	EMBED+RAW-SIG	20.56	45.01		
ax	EMBED+MEL-SPEC	20.93	40.96		
	EMBED+MEL-SPEC	20.93	44.38		
ax	EMBED+MFCC	19.97	44.71		
	EMBED+MFCC	20.32	45.52		

	NS	S	NS + S
F	21.47	38.83	31.20
d Regression	22.08	28.72	25.82
$_{d} \text{CNN}_{Softmax}$	18.93	33.99	27.37
ces	3,1k	3,7k	6,8k
EF	49.8k	63.3k	113,1k