

Double Embeddings and CNN-based Sequence Labeling for Aspect Extraction

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Description

SemEval-14 Lapt SemEval-16 Restau

Model	Laptop	Restaurant
CRF	74.01	69.56
IHS_RD	74.55	-
NLANGP	-	72.34
WDEmb	75.16	-
LSTM	75.25	71.26
BiLSTM-CNN-CRF	77.8	72.5
RNCRF	78.42	-
CMLA	77.80	-
MIN	77.58	73.44
GloVe-CNN	77.67	72.08
Domain-CNN	78.12	71.75
MaxPool-DE-CNN	77.45	71.12
DE-LSTM	78.73	72.94
DE-OOD-CNN	80.21	74.2
DE-Google-CNN	78.8	72.1
DE-CNN-CRF	80.8	74.1
DE-CNN	81.59*	74.37*

Table 2: Comparison results in F₁ score: numbers in the third group are averaged scores of 5 runs. * indicates the result is statistical significant at the level of 0.05.

The implementation of the paper is available at https://www.cs.uic.edu/~hxu/





	Training	Testing
	#S./#A.	#S./#A.
top	3045/2358	800/654
urant	2000/1743	676/622
	2000/1/ 10	0101022

Table 1: Dataset description with the number of sentences(#S.) and number of aspect terms(#A.)