Natural Language Processing Overview

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1 ConvNet for text

[Zhang and LeCun, 2015] employ a ConvNet for text. They solve the tasks of sentiment analysis, ontology classification and text categorization.

2 Encoding characters for neural networks

[Zhang and LeCun, 2015] employ a ConvNet for text and use an alphabet of characters of size m ($m = 70$), after which they one-hot encode chars. Chars not in the alphabet are zero-encoded. Characters are quantized in backward order.

3 Question answering

[Xiong et al., 2016]

References

[Xiong et al., 2016] Xiong, C., Zhong, V., and Socher, R. (2016). Dynamic Coattention Networks For Question Answering.

[Zhang and LeCun, 2015] Zhang, X. and LeCun, Y. (2015). Text Understanding from Scratch.