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.

References

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