Weekly Record

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Due: 09/03/2021

This week I shall begin with literature review part, I plan to separate it into lexicon, classifier (lexicon-based) and n-gram.

Lexicon:

Louise Guthrie, James Pustejovsky, Yorick Wilks, and Brian M. Slator. 1996. The role of lexicons in natural language processing. Commun. ACM 39, 1 (Jan. 1996), 63–72. DOI:https://doi.org/10.1145/234173.234204 (finished reading)

As the name suggested, explained the role of lexicons in natural language processing and how it acts. But the article is a little old.

Maite Taboada, Julian Brooke, Milan Tofiloski, Kimberly Voll, and Manfred Stede. 2011. Lexicon-based methods for sentiment analysis. Comput. Linguist. 37, 2 (June 2011), 267–307. (still reading)

Presenting a lexicon-based approach to extracting sentiment from text. The Semantic Orientation CALculator uses dictionaries of words annotated with their semantic orientation, and incorporates intensification and negation. This article is also a litter too old, however.

A.Bandhakavi, N. Wiratunga, S. Massie and D. Padmanabhan, "Lexicon Generation for Emotion Detection from Text," in IEEE Intelligent Systems, vol. 32, no. 1, pp. 102-108, Jan.-Feb. 2017, doi: 10.1109/MIS.2017.22. (still reading)

Explaining how to harness labeled emotion text and weakly labeled emotion text to learn a word-emotion association lexicon by jointly modeling emotionality and neutrality of words using a generative unigram mixture model.

Classifier:

Clos, J., Wiratunga, N., & Massie, S. (2017). Towards Explainable Text Classification by Jointly Learning Lexicon and Modifier Terms. (still reading)

Evaluate their lexicon-based classifier on both stance detection and sentiment classification, and tried to compare standard black-box shallow with white-box alternative offered by lexicon-based classifiers. However it seems to require deepen understanding of RELEXNET.

Thanks to the reminding by Shixuan, dataset description and previous tasks description should also be included, which may need to be kept for next week.