Experiments

Fake News Detectors

- For testing the ability of the emotional features to help the text-based fake news detectors (especially those do not explicitly model the emotional signals).
  - **BiGRU**: As word embedding using GloVe (en) Chinese Word Vectors (ch).
  - **BERT** (ECAI'20): Adopted to represent semantic signals when detecting fake news. Fine-tune the pretrained models for task.
  - **NileTMRG** (SemEval@ACL'17): For RumourEval-19, linear SVM and uses text features, social features, and use comments stance features.
  - **HSA-BLSTM** (CIKM'18): For Weibo datasets, proposed a hierarchical attention neural network and utilize not only the contents of news pieces but also comments.

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Evaluation Questions

- EQ1: Are Dual Emotion Features more effective than baseline features when used alone for fake news detection? How effective are the different types of features in Dual Emotion Features?
- EQ2: Can Dual Emotion Features help improve the performance of text-based fake news detectors?
- EQ3: How robust do the fake news detection models with Dual Emotion Features in real-world scenarios?
- EQ4: How effective are the components of Dual Emotion Features, including the publisher emotion, social emotion, and emotion gap?