Experiments

Effectiveness of Dual Emotion Features

Source	Emotion Features	R-19	W-16	W-20
Content	Emoratio	0.185	0.553	0.524
	EmoCred	0.253	0.564	0.542
	Publisher Emotion	0.290	0.571	0.573
Comments	Social Emotion	0.296	0.692	0.754
Content,	Emotion Gap	0.332	0.716	0.746
Comments	Dual Emotion Features	0.337	0.728	0.759

- Publisher Emotion is more effective than EmoCred and Emoratio, especially on the RumorEval.
 - It's reveals the effectiveness of Dual Emotion Features in modeling emotional signals.
- Moreover, observe that more improvements of Social Emotion and Emotion Gap,
- Using Dual Emotion Features can further obtain enhancements on the three datasets.
- *Clarified that RumourEval-19 are rather worse than the two Chinese datasets.
 - Because of the amount of news pieces is small and there is a relatively low interannotator agreement for the dataset.

Experiments

Effectiveness of different types features

Removed type	R-19	W-16	W-20
Emotion Category	0.193	0.679	0.686
Emotion Lexicon	0.239	0.715	0.745
Emotional Intensity	0.216	0.725	0.750
Sentiment Score	0.245	0.723	0.743
Other Auxiliary Features	0.307	0.653	0.722
Dual Emotion Features	0.337	0.728	0.759

- The macro F1 scores of Dual Emotion Features all decrease regardless of the removed type of emotion features.
- Thus, it reveals the necessity of using five types of emotion features jointly.