Experiments
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?

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, Comments	**Emotion Gap**	0.332	0.716	0.746
	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 inter-annotator agreement for the dataset.