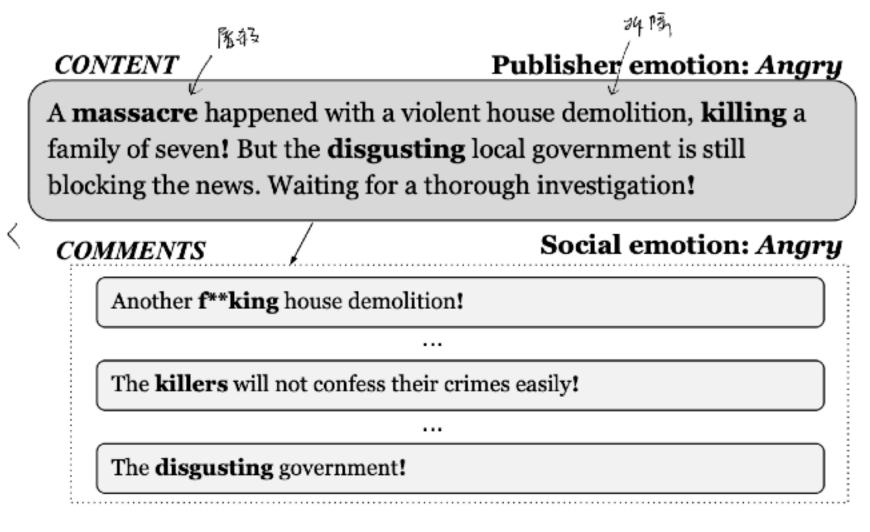
Introduction

Dual emotion appearances

- Emotion resonances
 - Publisher emotion is same or similar to social emotion.
- Emotion dissonances
 - Publisher emotion is different from the social emotion.
- The data observation statistical findings highlight that the relationship in dual emotion can be indicative of the news veracity and should be considered when modeling.



(a) Emotion resonance in a fake news piece: the publisher emotion and social emotion are both angry.

CONTENT	清製を是	Publisher emotion: Happy
Exciting! On the 70	thAnniversary	of the Victory of the
Anti-Japanese War,	Prime Minister	of Japan resigns officially. It is
worth celebrating	for every Chines	e!
COMMENTS	/	Social emotion: Angry
Don't readily be	lieve in rumors!	
So stupid of you. Don't spread it any more!		
<u> </u>		
Too naive Th	nk twice before tal	king.

(b) Emotion dissonance in a fake news piece: the publisher emotion is happy while the social emotion is angry.

Introduction

Dual Emotion Features

- To model the dual emotion and emotion resonances and dissonances for fake news detection.
- Proposed *Dual Emotion Features* to represent publisher emotions, social emotion and the similarity and difference of the dual emotion jointly.
- Besides, it's convenient to implement and plug the features into existing fake news detectors as an enhancement.