## Introduction

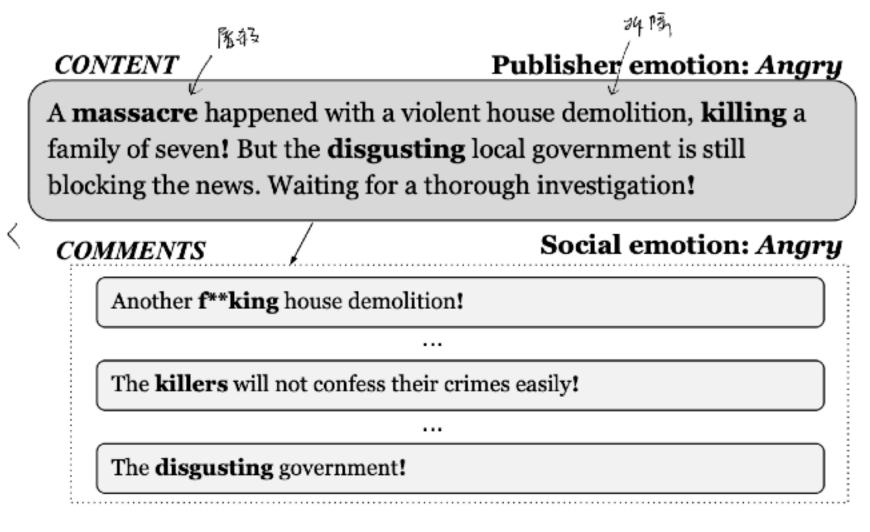
## Define the two emotions

- Publisher emotion
  - The emotions conveyed by publishers of the news pieces.
- Social emotion
  - The emotions aroused in the crowd facing to the news pieces.
- And adopt dual emotion as general term of these two emotions.

## 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	<b>清製を是</b>	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 <b>celebrating</b>	for every Chines	e!
COMMENTS	/	Social emotion: Angry
Don't <b>readily be</b>	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.