Introduction.

Fake News Detection existing methods

- <u>Traditional learning</u> and <u>deep learning based models</u>

  - Existing deep learning models have achieved performance improvement over traditional ones due to the ability of feature extraction.

- BUT still can't handle the situation like detecting fake news **<u>on newly emerged and time-critical events.</u>**

  - New event data <u>leads to unsatisfactory performance</u> of existing models.

Introduction..

Handle the newly emerged event

- Existing models tend to capture lots of event-specific feature (which not shared among different events).

  - Event-specific features being able to help classify the post on <u>verified events</u>

  - But hurt the detection with regard to <u>newly emerged events</u>

- **<u>Learning the shared features among all the events</u>** would help to detect the fake news from unverified post.