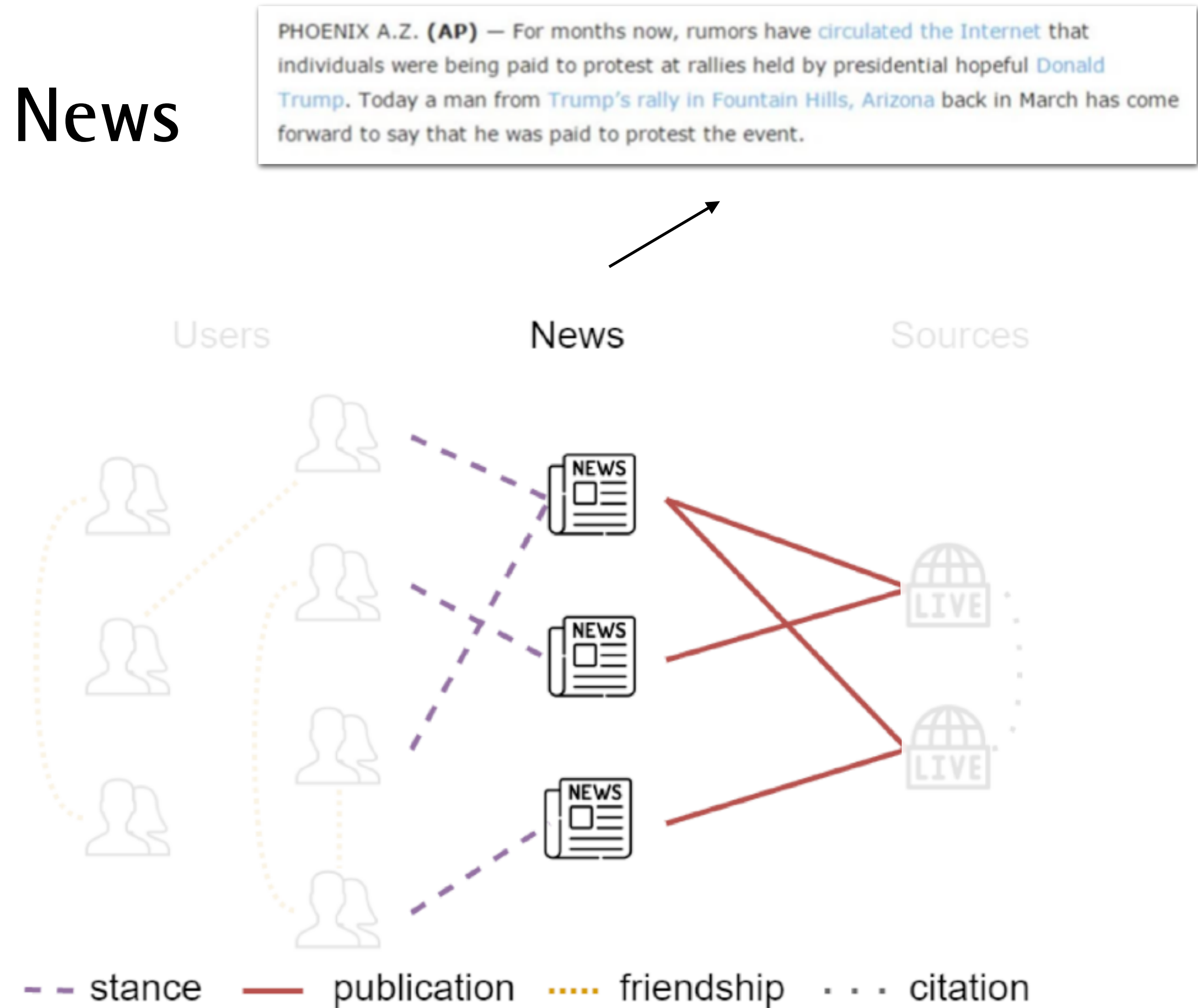


# Methodology

## Graph Construction from Social Context – News

- Feature
  - TF-IDF vector + weight word-embedding
  - From **news content**
- Relations
  - Source-news **publication**
  - User-news **stance**: neutral support, negative support, deny, report

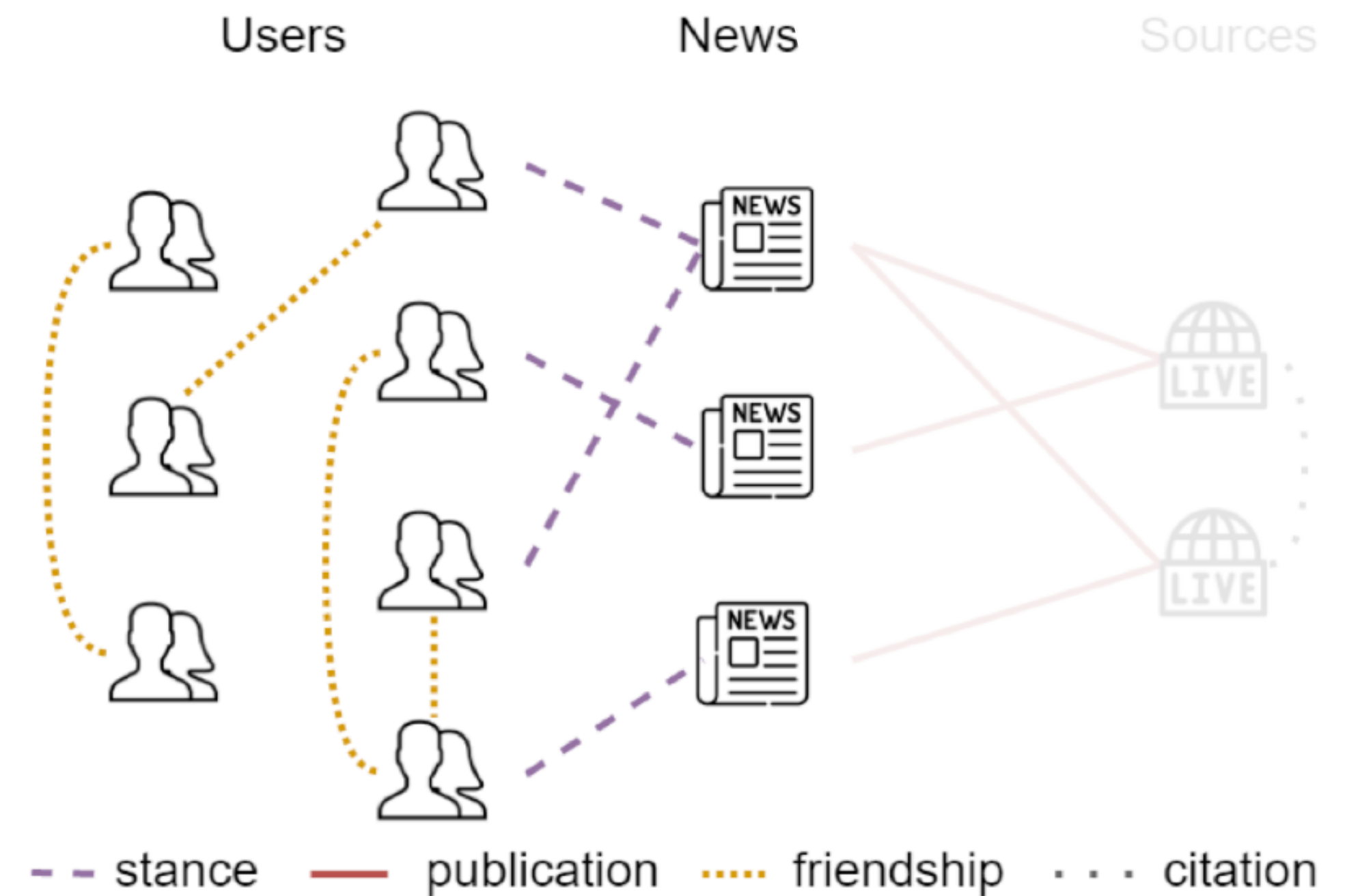


**Figure 1: Graph representation of social context.**

# Methodology

## Graph Construction from Social Context – Stance Detection

- Use **user reply** with respect to the title of a questionable news article.
- Classify a post as verbatim reporting of the news article if it **match the title** after clean process.
- Remaining post train a **stance detector** to classify the remaining post → support, deny
- In order to further classify support posts into neutral and with negative sentiment, we fine-tuned a similar architecture on the Yelp Review Polarity dataset to obtain a **sentiment classifier**.



**Figure 1: Graph representation of social context.**