Methodology

Definition

• Context-based fake news detection: Given a social context G = (A, S, U, E), context-based fake news detection is defined as the binary classification task to predict whether a news article $a \in A$ is fake or real.

•
$$F_C(a) = \begin{cases} 0 & \text{if } a \text{ is a fake article} \\ 1 & \text{otherwise} \end{cases}$$

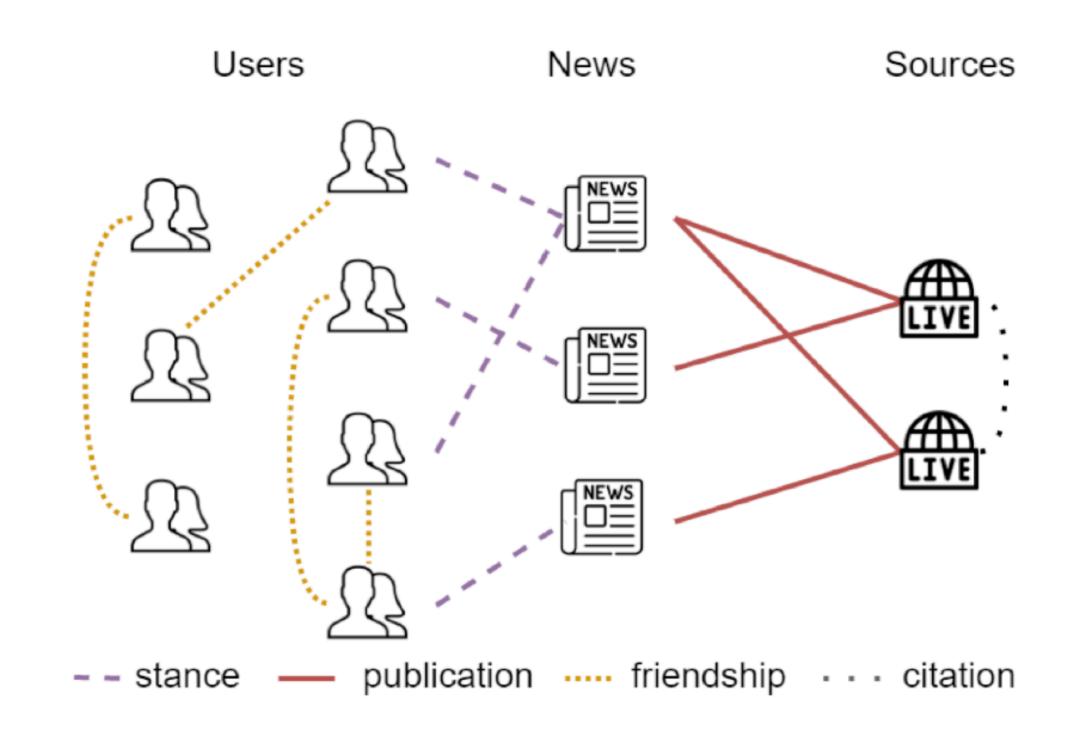


Figure 1: Graph representation of social context.

Methodology

Graph Construction from Social Context - Users

NUS ②
@NUSingapore
The National University of Singapore is Asia's leading university with a global approach in education, research and service. (RT, links and likes ≠ endorsement)

- Feature
 - TF-IDF vector + weight word-embedding
 - From user's twitter descriptions
- Relations
 - Friendship

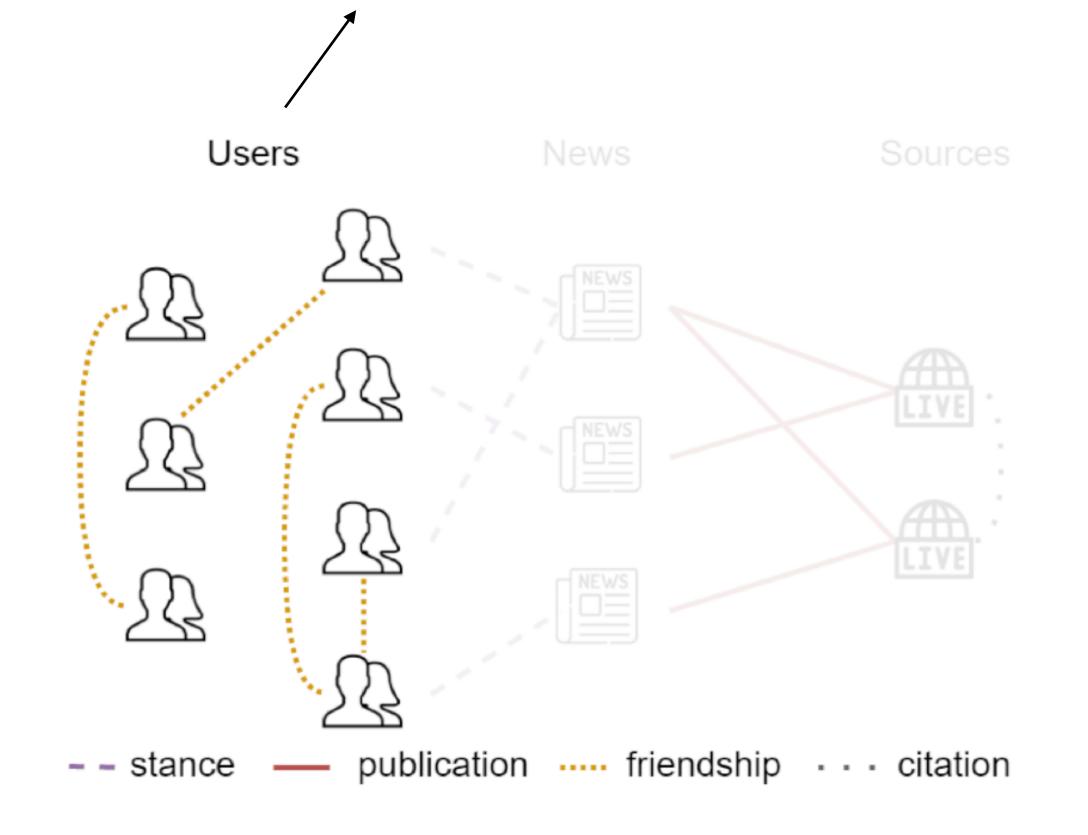


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