

Introduction

Graphical models

- Graphical models allow entities to exchange information via
 - (i) Homogeneous edges (user-user relationships, source-source citations)
 - (ii) Heterogeneous edges (user-news stance expression, source-news publication)
 - (iii) High-order proximity (between users who consistently support or deny certain sources)

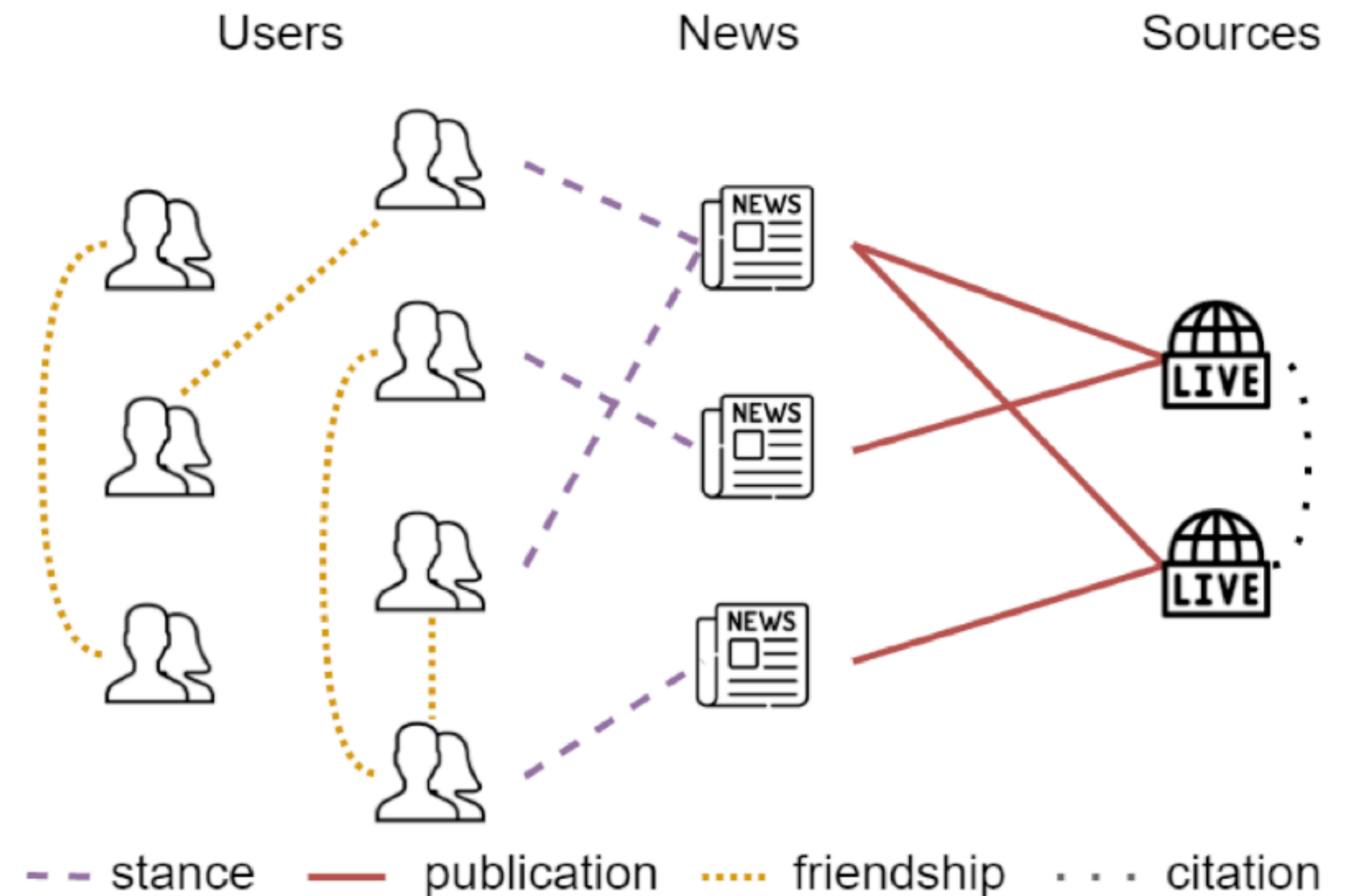


Figure 1: Graph representation of social context.

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Graphical models

- This allows the representation of heterogeneous entities to be dependent, leveraging not only **fake news detection** but also related social analysis tasks such as **malicious user detection** and **source factuality prediction**.
- FANG focuses on improving contextual fake news detection by **enhancing representations of social entities**.

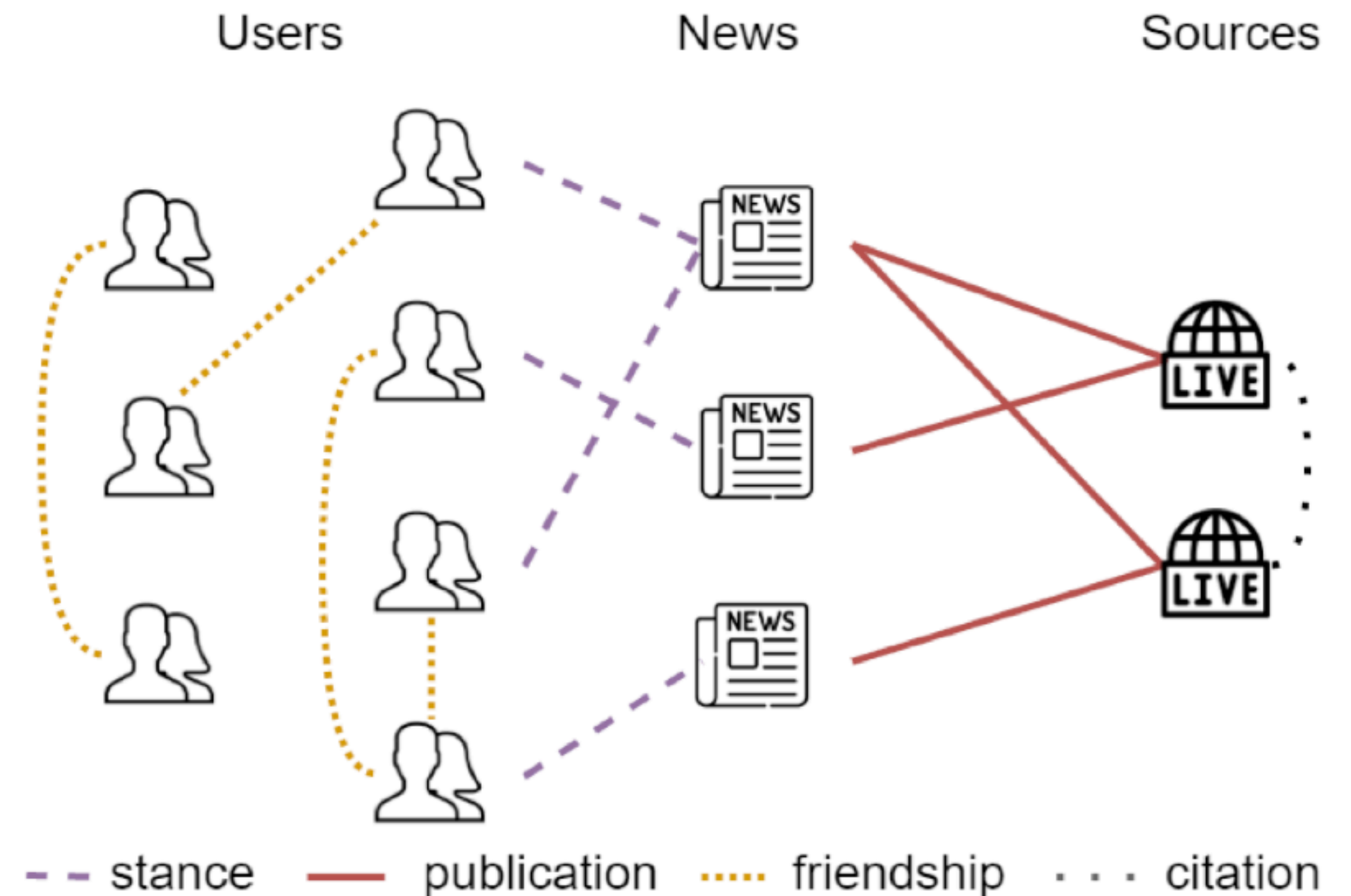


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