Introduction

Bi-directional GCN (Bi-GCN)

- Then, the representations of propagation and dispersion pooled from the embedding of TD-GCN and BU-GCN are merged together through full connections to make the final result.
- Meanwhile, concatenate the features of the roots in rumor trees with the hidden features at each GCN layer to enhance the influences from the roots of rumors.
- Employ DropEdge (Rong et al. 2019) in the training phase to avoid over-fitting.

Introduction

Contributions of Bi-directional GCN (Bi-GCN)

- Leverage GCN to detect rumors.
- Proposed Bi-GCN that
  - Not only considers the causal features of rumor propagation along relationship chains from top to down
  - But also obtains the structure features from rumor dispersion within communities through the bottom-up gathering.
- Concatenate the features of the source post with other posts at each GCN to make a comprehensive use of the information from the root feature.