Introduction

Recent Studies

- Exploited deep learning methods that mine high-level representations from propagation path/trees or networks to identify rumors.
  - LSTM, GRU, RvNN(Recursive Neural Networks)
    - Capable to learn sequential features from rumor propagation along time
- These approaches only pay attention on sequential features from propagation of rumors but neglect the influences of rumor dispersion.
- The structures of rumor dispersion also indicate some spreading behaviors of rumors.

Introduction

Recent Studies

- Some studies have tried to involve the information from the structures of rumor dispersion by invoking CNN-based methods.
  - CNN-based methods can obtain the correlation features within local neighbors but cannot handle the global structural relationships in graphs or trees.
  - The global structural features of rumor dispersion are ignored in these approaches.
  - CNN is not designed to learn high-level representations from structured data
    - But GCN is