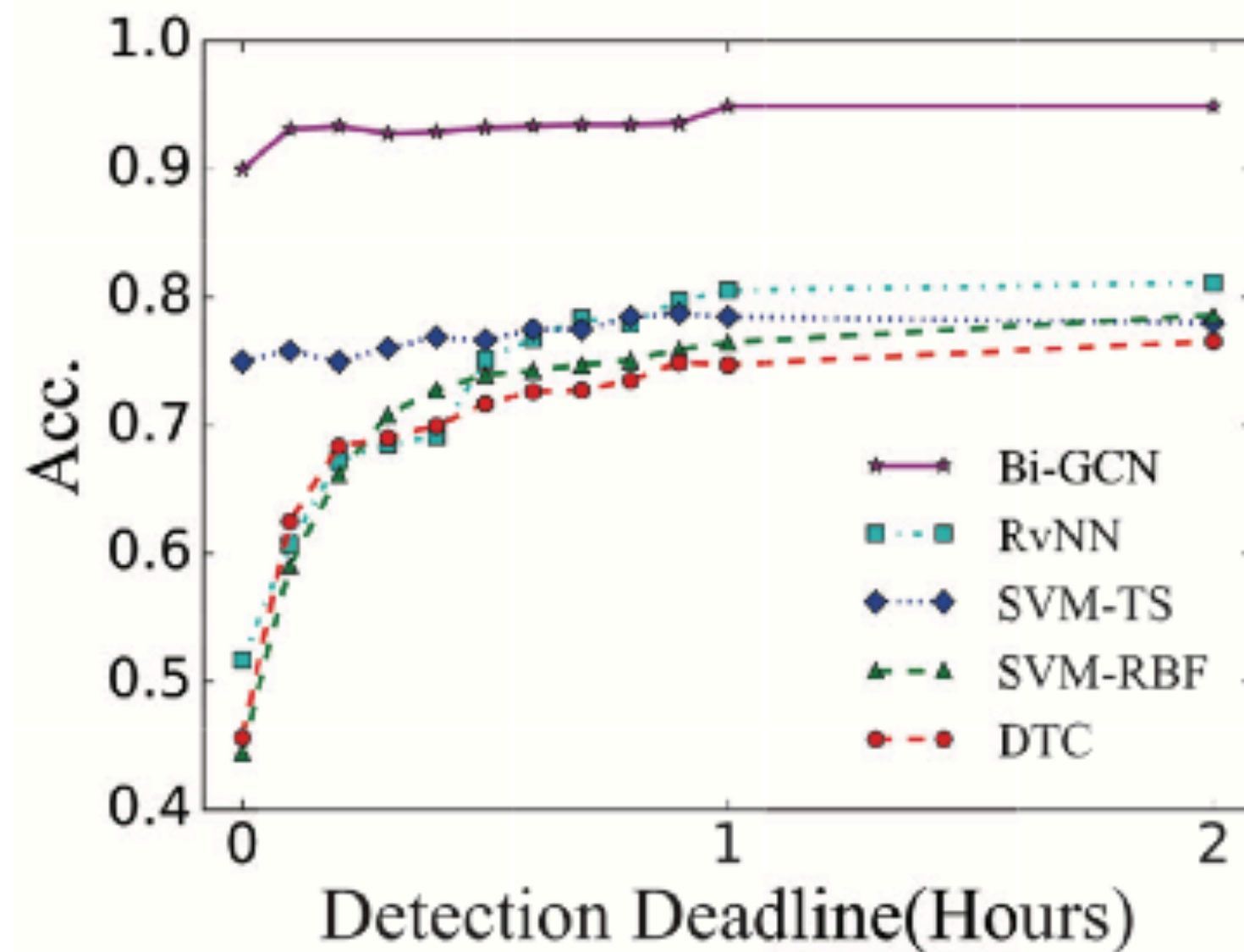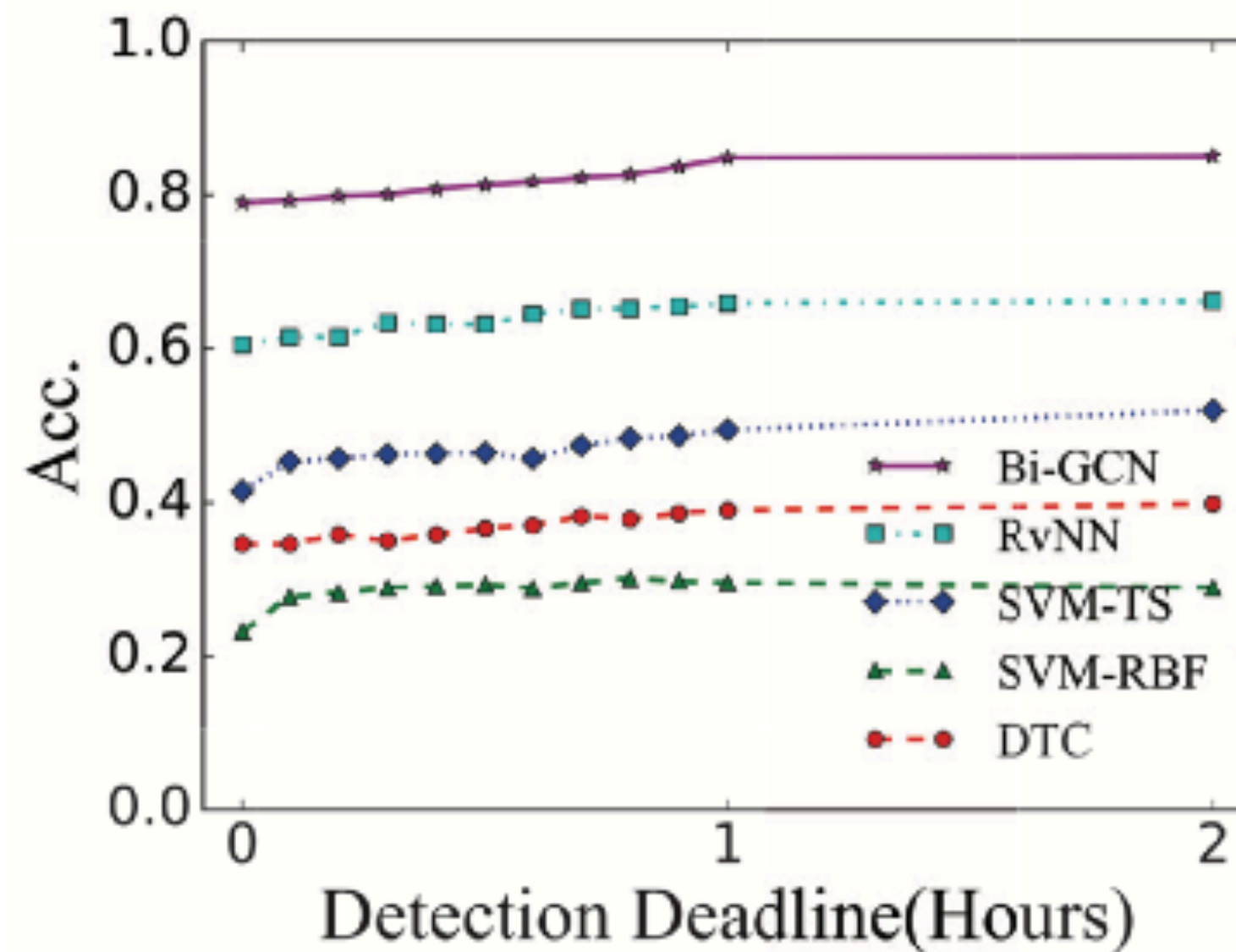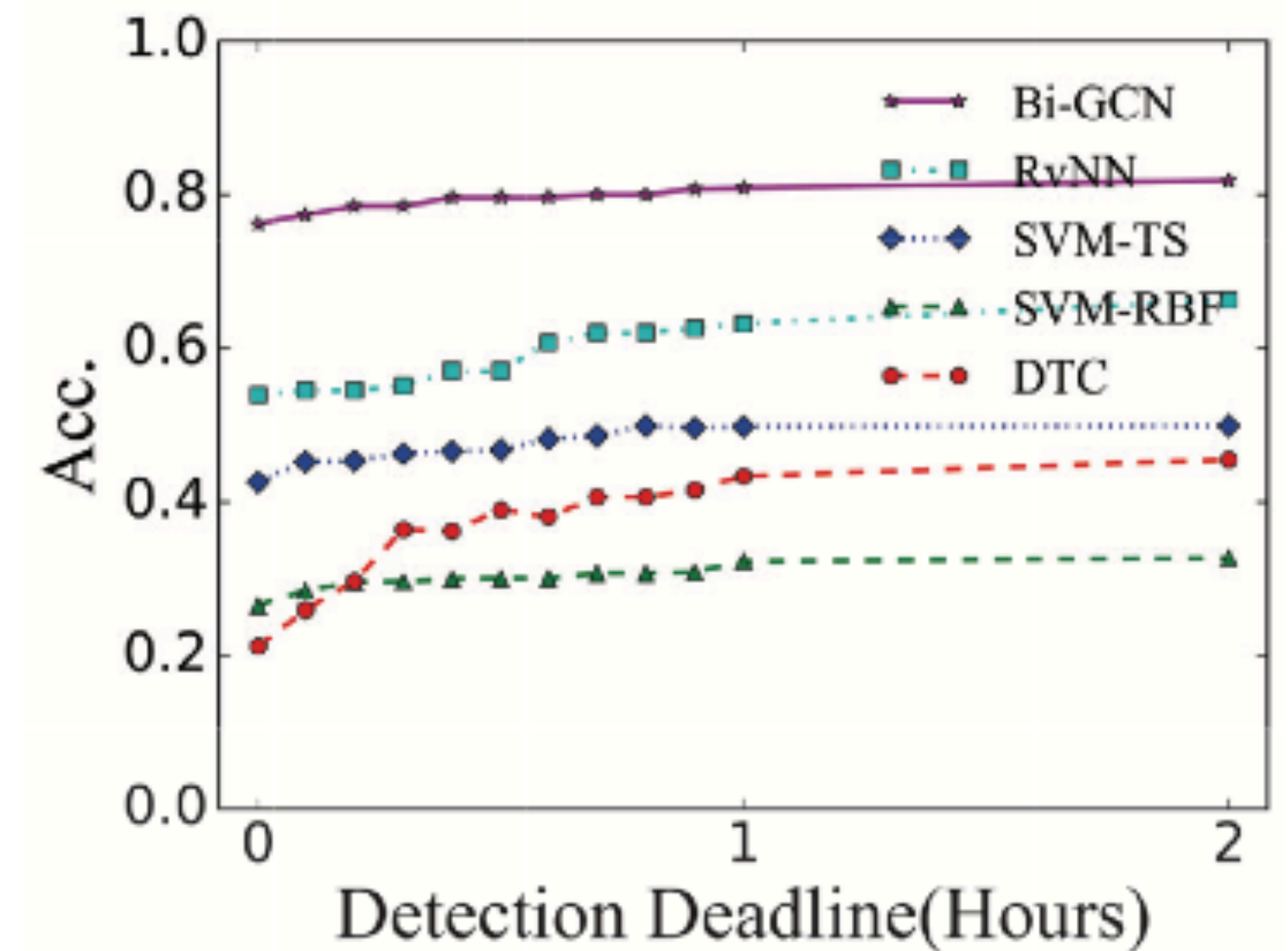# Experiments
Early Rumor Detection

(a) *Weibo* dataset   (b) *Twitter15* dataset   (c) *Twitter16* dataset

Result of rumor early detection on three datasets

- Bi-GCN reaches relatively high accuracy at a very early period after the source post initial broadcast.

- Observe that structural features are not only beneficial to long-term rumor detection, but also helpful to the early detection.

31

Conclusions

- Proposed a GCN-based model of rumor detection on social media, called Bi-GCN.

- Bi-GCN achieves the best performance by considering both

  - Causal features of rumor propagation along relationship chains from top to down propagation pattern

  - Structural features of rumor dispersion within communities through the bottom-up gathering.

- Improve the effectiveness of the model by concatenating the features of the source posts after each GCL of GCN.