SUMMARY MEETING

YU SHI

04/30/2018
On HIN embedding (modeling the compatible and the incompatible)

• Discussed in group meeting in the morning

• Published one paper since last summary meeting
  • AspEm

• Two papers under review
  • HEER: a unified model
  • mvn2vec: a systematic study of multi-view networks
On HIN motif (grouping the compatible to a higher-order unit)

- Two papers in preparation
  - In collaboration w/ CS512 students
  - Project 1: **Higher-Order Clustering** in Heterogeneous information Networks via **Joint Non-Negative Tensor Factorization**
    - Higher-order interaction (motif) is more informative
    - Compared w/ matrix factorization (Yin & Leskovec, KDD’17), tensor factorization makes more sense because one cannot expect all pairs of node in the same cluster to have an edge in between (reconstructing matrix)
  - Project 2: (Led by the students) Temporal Motifs in Heterogeneous Information Networks
    - Semantically richer with temporal information
    - Efficient algorithm can be developed for most popular (summarized from the literature) HIN motifs.