Semester Summary

Carl Yang
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Research - Network Embedding Algorithms and Applications

- Collaborate with Lucas, Chao, Yu Shi, etc.

- Algorithms
  - NEST: novel subgraph embedding/classification algorithm based on network structural convolution; done in summer; under revision with extension to HIN
  - GRACE: state-of-the-art network clustering algorithm with deep dynamic embedding; submitted to WWW

- Applications
  - PHINE: pattern-based HIN embedding for customer satisfaction prediction; done in summer at DiDi China; submitted to ICDE
  - mvn2vec: multi-view network embedding; led by Yu Shi; submitted to WWW
  - BranchNet: cross-modal embedding for spatiotemporal data; led by Chao; AAAI
Research - Network Embedding
Current Work

• cube2net: automatic cube exploration and network construction with RL

• PLSTM: new user type modeling and churn prediction; collaborate with Snap Inc.

• DER: network relationship embedding with information diffusion; collaborate with Yu Shi, Qi, Jiaming and Linkedin Inc.
Research - Collaborations

- 1 AAAI paper with Chao
- 1 ICDE submission with Chao
- 1 WWW submission with Lucas
- 1 WWW submission with Yu Shi
- Frequent discussion with Xiang, Quan, Chao, Yu Shi, Jingbo, Lucas, Jiaming, Meng Qu, Zoey and etc.
Misc

• DARPA project
• CS 412 half TA
• DMBK revision
• Snap part-time contractor
• KDD, Amazon Symposium participation
Thanks