Semester Summary

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Research

• Set Expansion (Submitted to PKDD’ 17)
  • Task:
    • Given a corpus and a set of seed entities of the same semantic class, expand the set to include all semantically similar entities in the corpus.
  • Collaborators:
    • Jiaming, Dongming
  • Extended work:
    • Facet Hierarchy Construction, Set expansion of conceptually similar entities
Research

• QA-Driven Relation Extraction (On-going)
  • Task:
    • Leverage feedback signals from existing question answering systems (QAS) to enhance the performance of CoType (Distant-supervised entity and relation extraction)
  • Principals:
    • 1) Learning-to-rank mechanism in QAS can differentiate qualities of noisy training examples
    • 2) Entity and relation extraction can improve QAS performance
  • Supervised by Xiang
Research

• LifeNet (Accepted to ACL Demo)
  • A Structured Network-Based Knowledge Exploration and Analytics System for Life Sciences
  • Collaborators:
    • Xiang, Jiaming, MengQ, Xuan, Qi, Fangbo

• CoType (Accepted to WWW’17)
  • Distant-supervised joint entity and relation extraction
  • Collaborators:
    • Xiang, Wenqi, MengQ
Misc

• Courses:
  • CS 512, CS 598

• Paper review:
  • KDD, ACL Demo