Semester Summary

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ReMine: OpenIE with global constraints

• listed as one of best poster honorable mentions of WWW18
• full paper version submitted to KDD18
• Current progress:
  • Github: ReMine
  • enlarge parallel percentange
  • work with CS512 students:
    • pretrain/test on 10M wiki/30M bio_pubtator
    • Online demo and C++ server version of ReMine
  • server philosophy can be easily applied to AutoPhrase, MetaPad, etc
  • A solution of scalable text-rich information network construction
    • planned WSDM demo
    • contact me if you are interested in contributing module/design
HEER: resolving HIN incompatibility via edge embedding

• Team up with Yu
• submitted to KDD
• Github repo: HEER
• Experiments on large-scale HINs
  • DBLP, 5 edge types, 30M edges
  • YaGo, 30+ edge types, 20M edges
• Next Steps:
  • Investigate application-wise improvements
  • Apply on linkedin economic graph
On-going Projects

• Open Event Extractions
  • Formulate event schema induction from view of hyper-graph construction
  • Team up with Zoey

• local embedding with conceptual hierarchy
  • Go beyond local embedding along specific path by changing sampling rate
    • previous work with Huan
  • try to benefit from both hierarchy guidance and raw text co-occurrence
    • current Hyperbodlic embedding do not generalize well on raw text
    • Euclidean embedding fails to preserve tree structures
  • boost document ranking/classification performance
Misc

• TA of CS512, mentor three groups of CS512 students
• Always on the road
  • will be on family trip shortly
  • tell me if you need a poster card 😊
  • excited to extend my “contract” with DMG, take a photo with me on May 12\textsuperscript{th} ceremony!
• Summer
  • will be at campus
    • open to collaborations or world-cup watching invitations