2014 Fall Summary

Yu Shi
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Research – Heterogeneous Information Network with Hierarchy

- Each entity type has its own hierarchy
- Boost mining performance with hierarchy information as expertise
Research – Heterogeneous Information Network with Hierarchy

• For each entity, we treat it not alone but an structure in the hierarchy

• E.g. search for concepts highly related to “Genes, BRCA1”
Research – Heterogeneous Information Network with Hierarchy

- Intuition
  - Information propagates along the hierarchy
  - Boost confidence coefficients using measure variance over siblings

Figure adapted from Nested Hierarchical Dirichlet Processes
Volunteer

- Paper reviews
  - 1 ICDE 2015
  - 1 EDBT 2015
- Help coordinate CS591 Data Mining Seminar with Jingjing
Courses

- CS 412 Data Mining
- CS 446 Machine Learning
- CS 591 Data Mining Seminar
- CS 591 PhD Seminar
- ESL 501