Spring 2015 Summary

Shi Zhi
Research

• Modeling Truth Existence in Truth Discovery
  – Propose a new model called Truth Existence Model (TEM) which can leverage the correctness & completeness of truth integrated from a mixture of correct answers, empty answers & erroneous answers.
  – First work modeling truth existence in truth discovery.
  – Propose a probability model and an efficient inference algorithm to solve truth existence problem.
  – Provide a novel cluster-based initialization scheme to help better estimate truth existence.
  – Evaluate TEM on real-world datasets and provide effective guidance of parameter settings.
  – Submitted to KDD’15
Research

• Robust Classification of Information Networks by Consistent Graph Learning
  – Decompose original relation matrix into two parts: consistent relation matrix and residue matrix.
  – Perform a joint graph regularization on the consistent relation matrix with nuclear-norm minimization, and the residue matrix with l1-norm minimization, subject to certain constraints.
  – Develop an efficient optimization method to learn the consistent network for network classification.
  – Evaluate proposed method on real-world homogeneous and heterogeneous networks and provide guidance for parameter settings.
  – Submitted to ECMLPKDD’15
Others

• Passed the Qual 😊

• Thank you!