

Translational AI Center (TrAC) Seminar Spring 2023

Qi Li

February 3 at 12:00 noon (US Central Time)

[Zoom: https://iastate.zoom.us/j/92178103551?pwd=dINCa2l0ckVBTEVyR1JEN2Y3b21XQT09](https://iastate.zoom.us/j/92178103551?pwd=dINCa2l0ckVBTEVyR1JEN2Y3b21XQT09)

Information Extraction with Weak Supervision

Abstract

Human provides knowledge in various forms. One major form is in text, such as scientific literature, news articles, and reports. In the past two decades, there have been many efforts in extracting structured knowledge from the unstructured text through the work of curators for better knowledge organization, efficient knowledge search and retrieval, and inspiring new knowledge discovery, especially in life sciences. Automated information extraction systems are established to facilitate manual curation. However, with the growing volume of literature and breadth of information, it is increasingly difficult for curators and the information extraction systems to keep up. In this talk, I will present my recent work of automated information extraction with less human effort. These methods aims to train high quality information extractors with noisy labels provided via crowdsourcing or existing resources.

Short Bio

Dr. Qi Li is assistant professor at Department of Computer Science, Iowa State University. She was postdoc at Department of Computer Science, University of Illinois at Urbana-Champaign after obtained her PhD in Computer Science and Engineering from SUNY Buffalo in 2017. She has received several awards including "Rising Star in EECS" in 2018 and the Best Dissertation Award at Department of Computer Science and Engineering, University at Buffalo. Her research interests lie in the area of data mining with a focus on the information extraction and truth discovery from multiple data sources. Dr. Li has published over 40 papers in major data mining, database, and natural language processing conferences, such as KDD, VLDB, SigMOD, EMNLP, ACL, with over 2,600 citations and an h-index of 22. She serves as senior PC members on data mining and AI conferences, including KDD and AAAI, and co-chair the TrueFact workshop since 2019. Her research is sponsored by NSF, USDA, and DoD.