An Effective Graph-based Framework for Name Disambiguation

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Abstract:
Name ambiguity is very common in real life and may cause much confusion in many cases if we use names to identify specified persons. In general, the problems caused by name ambiguity can be classified into two categories, namely, reference disambiguation and name disambiguation. In this talk, I will introduce our recent work on name disambiguation. Based on the observation that graph structure can be used to naturally model complex relationships among entities (and their attributes too), we proposed a very effective graph-based framework for name disambiguation in both digital library and Web search settings. The framework involves graphic modeling, similarity computation between any two nodes, and graph clustering. Under this unified framework, I will introduce two algorithms, GHOST and GRAPE, proposed by our group for name disambiguation in digital library and Web search settings, respectively. If time permits, I would also like to demonstrate the GRAPE system for disambiguating people appearances in Web search.

Keywords: Name Disambiguation, Graph Clustering, GHOST, GRAPE

References:

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