

Mining Heterogeneous Information Networks by Exploring the Power of Links

Jiawei Han

Department of Computer Science
University of Illinois at Urbana-Champaign
hanj@cs.uiuc.edu

Abstract. Knowledge is power but for interrelated data, knowledge is often hidden in massive links in heterogeneous information networks. We explore the power of links at mining heterogeneous information networks with several interesting tasks, including link-based object distinction, veracity analysis, multidimensional online analytical processing of heterogeneous information networks, and rank-based clustering. Some recent results of our research that explore the crucial information hidden in links will be introduced, including (1) **Distinct** for object distinction analysis, (2) **TruthFinder** for veracity analysis, (3) **Infonet-OLAP** for online analytical processing of information networks, and (4) **RankClus** for integrated ranking-based clustering. We also discuss some of our on-going studies in this direction.