

ACMS Applied Math Seminar

TIM WENINGER

Wed, Oct 8
129 Hayes-Healy
3:00 PM



Discovering Hierarchies within Massive Information Networks

Graphs are all around us. They can be made to model countless real-world phenomena ranging from the social to the scientific including information, media, biology, chemistry, medical systems, and e-commerce systems. We call these graphs information networks because they represent bits of information and their relationships. This talk focuses on discovering hierarchies from very large scale information networks by exploring certain properties inherent within the networks. We focus on the Web-information network, as well as specialized sub-networks like Wikipedia, where we aim to determine its position in the type-hierarchy and their relationships to each other. This new information can then be used to answer expressive queries on the network and allows us to explore additional properties about the network that were previously unknown.

The Department of Applied and Computational
Mathematics and Statistics

Please visit acms.nd.edu to view the full list of speakers.