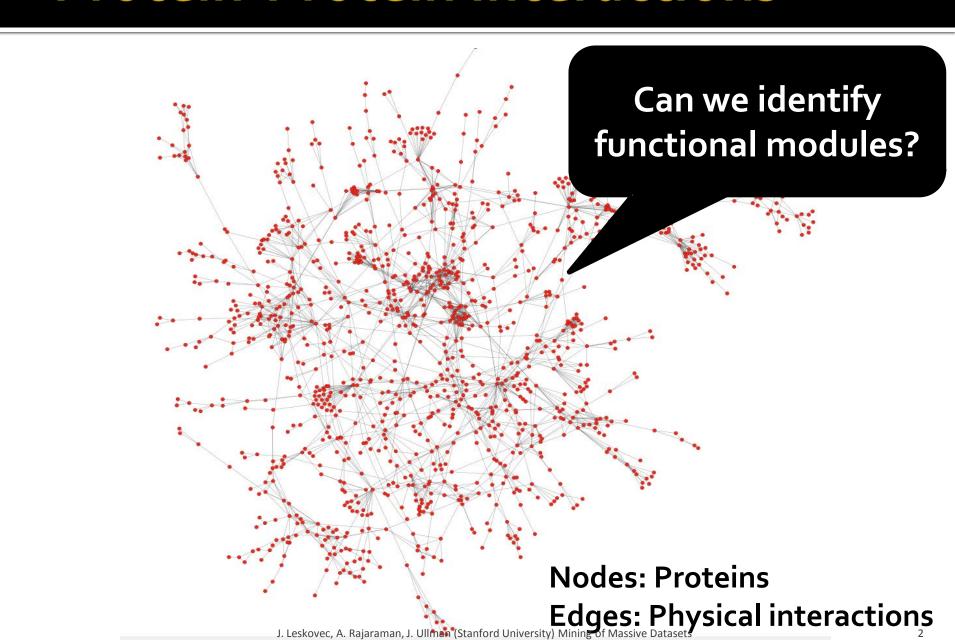
Community Detection in Graphs

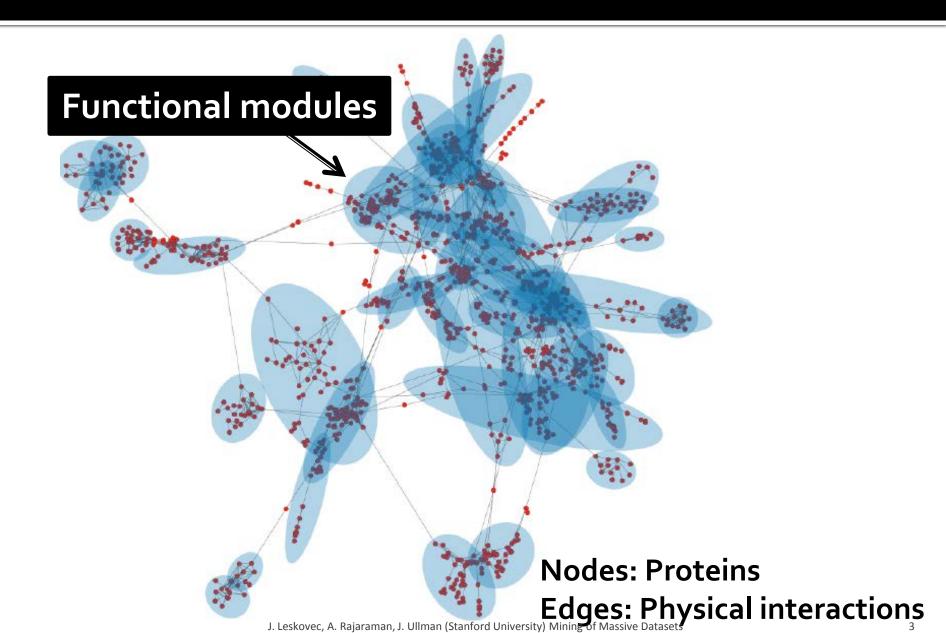
Mining of Massive Datasets
Leskovec, Rajaraman, and Ullman
Stanford University



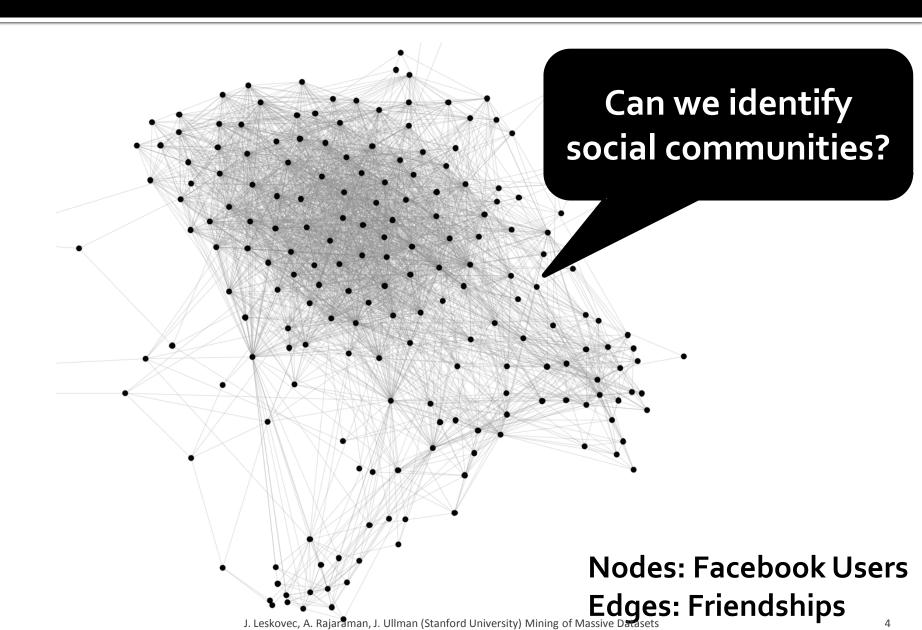
Protein-Protein Interactions



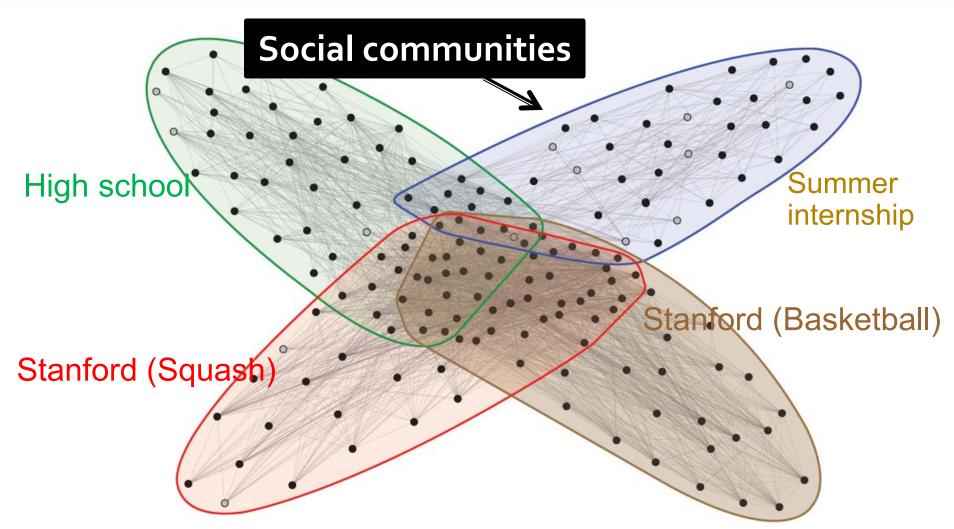
Protein-Protein Interactions



Facebook Network



Facebook Network

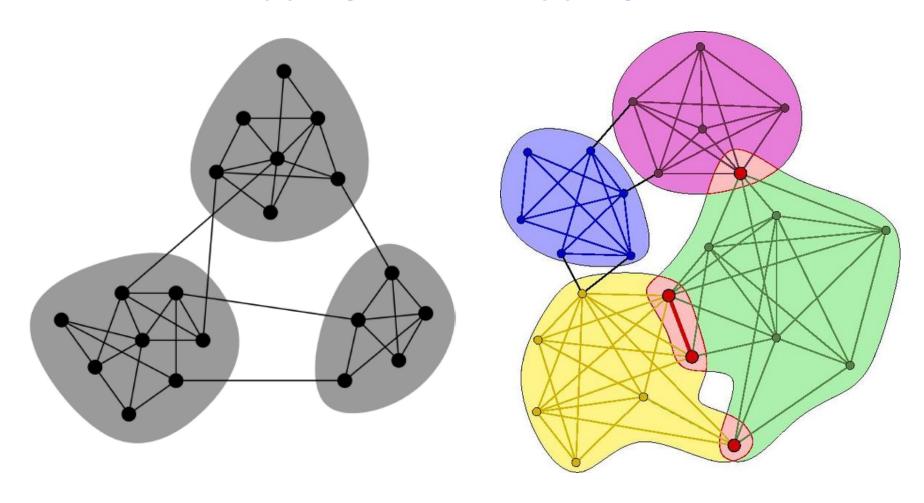


Nodes: Facebook Users

Edges: Friendships

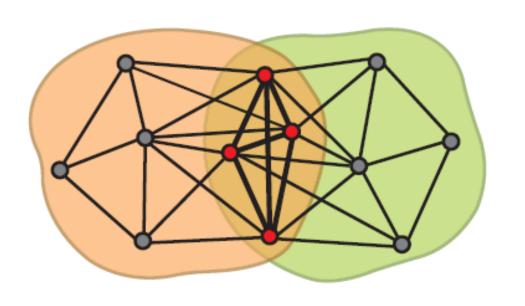
Overlapping Communities

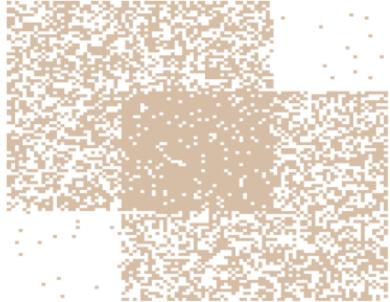
Non-overlapping vs. overlapping communities



Communities as Tiles!

What is the structure of community overlaps: Edge density in the overlaps is higher!





Communities as "tiles"

Recap so far...

