What's a bicluster?
- A cluster is a set of entities.
- A bicluster is two sets of entities and their relationships.

Bicluster Example

Main Contributions of the paper
- Visualizing biclusters with relationship weights
  - Example: Biological, gene expression levels.
- Visualizing biclusters across multiple domains
  - A biclone matching and clustering algorithm.

System Overview
- Multi-domain relationship data
- Biclustering analysis
- Visualization

Two pairs of domains

VAD

Strength and Weaknesses
- Strengths
  - Adjustible filtering parameters
  - Grouping biclusters
  - Biclone relationship encoding
- Weaknesses
  - Difficulty to locate an entity

Usage Scenario

BI-Dots: Visual Exploration of Weighted Biclusters
Anh Do, Hanh Tran, Hoai Anh Giang, and Ngoc Dinh

Visualization (One pair of domains)

Visualization (One pair of domains)
Critique

- Difficult to navigate if the number of biclusters is huge.
- Duplicate entities across different biclusters.
- The size of biclusters cannot be large.

Further Readings


- Demo: Bicat: Visual Exploration of Weighted Biclusters
  https://www.youtube.com/watch?v=9F3vF11M