Definition
Applications

- Medical research
  - Disease gene association
  - Biochemical networks
- Information analysis
  - Information or event extraction
- Bioinformatics
  - Protein-protein association
NP Hard

- Consider the maximum clique problem.
Strategy

- Search for a mapping:
  - Chose an assignment for each vertex
  - If at any point a valid assignment cannot be made, return to the previous vertex and chose a different assignment
  - The answer is found when either a valid mapping is constructed or all valid options are eliminated.
Refined search pattern

- ILF(k) – Node degrees
- LAD – Node adjacencies
Sources