Book: Introduction to Social Network Methods (Hanneman)

This textbook introduces many of the basics of formal approaches to the analysis of social networks. The text relies heavily on the work of Freeman, Borgatti, and Everett (the authors of the UCINET software package). The materials here, and their organization, were also very strongly influenced by the text of Wasserman and Faust, and by a graduate seminar conducted by Professor Phillip Bonacich at UCLA. Many other users have also made very helpful comments and suggestions based on the first version.

- 1: Social Network Data
- 2: Why Formal Methods?
• 3: Using Graphs to Represent Social Relations

• 4: Working with Netdraw to Visualize Graphs

• 5: Using Matrices to Represent Social Relations

• 6: Working with Network Data
7: Connection

8: Embedding

9: Ego Networks

10: Centrality and Power
11: Cliques and Sub-groups

12: Positions and Roles - The Idea of Equivalence

13: Measures of Similarity and Structural Equivalence

14: Automorphic Equivalence
15: Regular Equivalence

16: Multiplex Networks

17: Two-Mode Networks

18: Some Statistical Tools