

Computational Techniques in Latent Variable Network Models

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1 Introduction

2 Latent Variable Models

1. Introduction of network data
2. Community detection in networks
3. Latent variable models
4. Inclusion of observed covariates

3 Computational Modeling Approaches

1. Estimation Maximization for latent class modeling
2. Markov Chain Monte Carlo methods for latent variable models

4 Data & Application

1. Data description
2. Modeling approaches
3. Analysis
4. Results

5 Conclusion

6 References

A Estimation Maximization Code

B Markov Chain Monte Carlo Code

C Figures Code