

The Additive and Multiplicative Effects Network Model

Seminar on Statistical Modeling of Social Networks

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Introduction

- Dyadic Data
- Get out of bed

Theory

$$y_{ij} = \mu + e_{ij}$$

$$e_{ij} = a_i + b_j + e_{ij}$$

The Multiplicative Part

- Dyadic and Triadic Dependency
- Trace Plots

- Binary Data
- Censored Data
- Ordinal Data

- Vector Auto Regression Models
- Time as Interaction

Application: The Alliances Data Set

- Statistic 1
- Statistic 2

- Figure 1

- SRM Results
- Latent Factor Results

- Comparison with model xx
- Goodness of Fit

- Early Results
- Identification Issues

- Thank you very much for your attention!