

Repeated Measures

Data Structure

- Each Member of the Dyad Measured k Variables
 - The k times are not replications as in the typical diary study.
 - Each measure represents a meaningful “condition”
 - In principle, $2k$ measurements for every dyad.

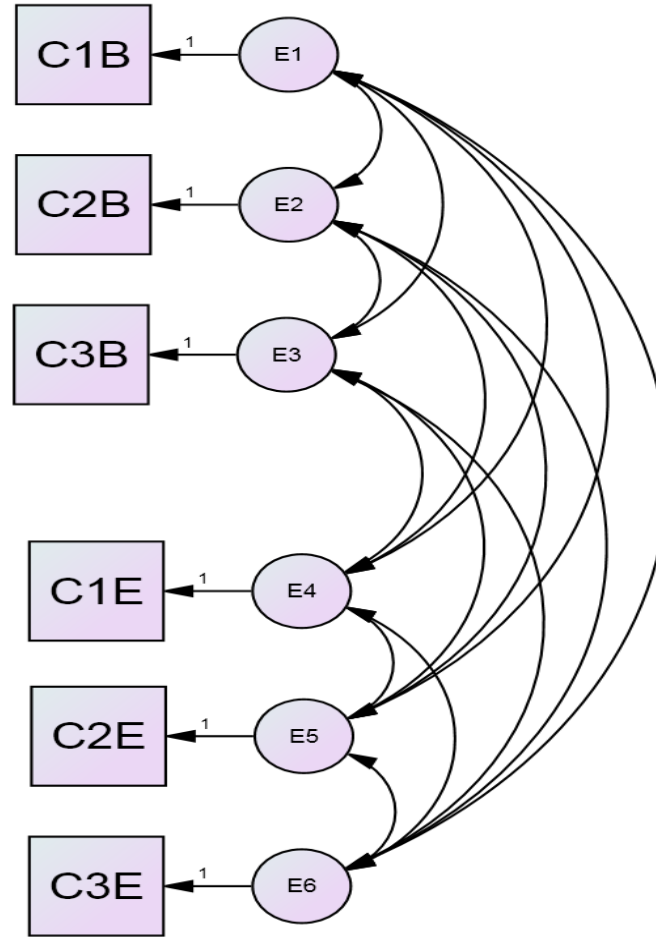
Examples

- Times: Baseline and followup
- Conditions: Treatment and control
- Settings: Low and high stress.
- Outcomes: Happy, sad, and angry

Error Variances and Correlations

- No constraints on variances and correlations or errors: saturated model of the errors.
- No random effects.
- Other over-time models, e.g., growth-curve, attempt to explain the changes over-time in the variances and the over-time correlations: constrained model of the errors.

***Three
Conditions
(C1, C2, C3) for
Boss (B) and
Employee (E)***



Example: Effect of Day of the Week and Gender on Relationship Satisfaction