

## Structural Equation Modeling A Bayesian Approach

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Structural equation models SEMs provide a broad framework for modeling of means and covariance relationships in multivariate data. Although the Bayesian approach is flexible enough to allow several extensions, our focus here is on the usual normal linear SEM, which is often referred to as a linear structural relations or LISREL model.

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The structural model is used to map the relationships between the lower-level data and the higher-level data, and the experimental observations and the model predictions, expressed as follows: (9)  $\gamma_{low} = A_{low} \gamma_{low} + \epsilon$ , low (10)  $\gamma_{high} = B \gamma_{low} + \epsilon$ , high (11)  $\gamma_{high} = A_{high} \gamma_{high} + B \gamma_{low} + \epsilon$ , high where the  $p \times p$  matrix  $A_{low}$  and the  $q \times q$  matrix  $A_{high}$  quantify the influence of  $\gamma$  on  $\gamma$  at the lower level and at the higher level, respectively, the ...

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within the Bayesian framework as well as the Bayesian Structural Equation Models (BSEM) discussed in B. Muthén and Asparouhov (2012), where small variance priors are used to relax the SEM model to accommodate minor differences between the model and the observed data. We show how the Bayesian fit indices can be used instead of the PPP to build

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