

## Bayesian Semiparametric Structural Equation Models With

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inferring relationships among latent variables. Bayesian SEMs are appealing in allowing for the incorporation of prior information and in providing exact posterior distributions of unknowns ...

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Bayesian Lasso for Semiparametric Structural Equation Models 569 we model  $M_j f_j(i_j) = \sum_{m=1}^M \beta_{jm} \phi_{jm}(i_j)$  as a linear basis expansion in  $\phi_{jm}$ , where  $\{\phi_{jm}(\cdot), m = 1, \dots, M_j\}$  are basis functions for  $\mathcal{X}_j$ , such as piecewise polynomials and natural cubic splines, among many others (Hastie et al., 2009).

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The authors develop a Bayesian local influence method for semiparametric structural equation models. The effects of minor perturbations to individual observations, the prior distributions of parameters, and the sampling distribution on the statistical inference are assessed with various perturbation schemes.

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Bayesian inference in a semiparametric multiple equation model where one (or more) of the dependent variables is censored can be handled in a similar manner. We have assumed normal errors, but this assumption can easily be relaxed through the use of mixtures of normals.

Bayesian Lasso for Semiparametric Structural Equation Models  
Bayesian Semiparametric Structural Equation Models with Latent Variables

Bayesian Lasso for Semiparametric Structural Equation Models  
Summary There has been great interest in developing nonlinear structural equation models and associated statistical inference procedures, including estimation and model selection methods. In this paper a general semiparametric structural equation model (SSEM) is developed in which the structural equation is composed of nonparametric functions of exogenous latent variables and fixed covariates ...

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Bayesian Lasso for Semiparametric Structural Equation Models 5 B.2 Updating 1 Recall that  $1 = (y; )$ . The structural component of  $y$  is usually pre-specified and some of the parameters are fixed for identifiability reasons.

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Structure detection of semiparametric structural equation ...

In this paper a general semiparametric structural equation model (SSEM) is developed in which the structural equation is composed of nonparametric functions of exogenous latent variables and fixed covariates on a set of latent endogenous variables.

Structure detection of semiparametric structural equation ...

Bayesian lasso for semiparametric structural equation models. Guo R(1), Zhu H, Chow SM, Ibrahim JG. Author information: (1)Department of Biostatistics, University of North Carolina at Chapel Hill, USA. rguo@bios.unc.edu

Structure detection of semiparametric structural equation ...

In behavioral, biomedical, and psychological studies, structural equation models (SEMs) have been widely used for assessing relationships between latent variables. Regression-type structural models based on parametric functions are often used for such purposes. In many applications, however, parametric SEMs are not adequate to capture subtle patterns in the functions over the entire range of ...

Bayesian Semiparametric Structural Equation Models

Bayesian Lasso for Semiparametric Structural Equation Models Ruixin Guo , 1, \* Hongtu Zhu , 1, \*\* Sy-Miin Chow , 2, \*\*\* and Joseph G. Ibrahim 1, \*\*\*\* 1 Department of Biostatistics, University of North Carolina at Chapel Hill, USA

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## Bayesian Lasso for Semiparametric Structural Equation Models

Structural equation models (SEMs) with latent variables are widely useful for sparse covariance structure modeling and for inferring relationships among latent variables. Bayesian SEMs are appealing in allowing for the incorporation of prior information and in providing exact posterior distributions of unknowns, including the latent variables.

## Bayesian Semiparametric Structural Equation Models with ...

This study develops a Bayesian adaptive group least absolute shrinkage and selection operator procedure to perform simultaneous model selection and estimation for semiparametric SEMs, wherein the structural equation is formulated using the additive nonparametric functions of observed and latent variables.

## Bayesian Lasso for Semiparametric Structural Equation Models

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