

# Bayesian Semiparametric Structural Equation Models With

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 Bayesian Lasso for Semiparametric Structural Equation Models  
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[Bayesian Semiparametric Structural Equation Models with ...](#) 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 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 ... Bayesian Lasso for Semiparametric Structural Equation Models Bayesian Lasso for Semiparametric Structural Equation Models 569 we model  $M_j = \sum_{i=1}^m \beta_{ij} \phi_{ij}(x_j)$  as a linear basis expansion in  $x_j$ , where  $\{\phi_{ij}(\cdot), m\} = 1, \dots, M_j$  are basis functions for  $x_j$ , such as piecewise polynomials and natural cubic splines, among many others (Hastie et al., 2009). Bayesian Lasso for Semiparametric Structural Equation Models A semiparametric Bayesian approach for structural equation models Article in Biometrical Journal 52(3):314-32 · June 2010 with 24 Reads How we measure 'reads' A semiparametric Bayesian approach for structural equation ... Structure detection of semiparametric structural equation models with Bayesian adaptive group lasso Article in Statistics in Medicine 34(9) · January 2015 with 143 Reads How we measure 'reads' 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](mailto:rguo@bios.unc.edu) Bayesian lasso for semiparametric structural equation models. Model Comparison of Bayesian Semiparametric and Parametric Structural Equation Models Article in Structural Equation Modeling A Multidisciplinary Journal 18(1):55-72 · January 2011 with 17 Reads Model Comparison of Bayesian Semiparametric and Parametric ... Bayesian Lasso for Semiparametric Structural Equation Models Article in Biometrics 68(2):567-77 · February 2012 with 91 Reads How we measure 'reads' Bayesian Lasso for Semiparametric Structural Equation Models 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. 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 ... A Bayesian Modeling Approach for Generalized ... A Bayesian Modeling Approach for Generalized Semiparametric Structural Equation Models Article in Psychometrika 78(4):624-647 · October 2013 with 64 Reads How we measure 'reads' A Bayesian Modeling Approach for Generalized ... Bayesian Lasso for Semiparametric Structural Equation Models 5 B.2 Updating 1 Recall that  $1 = (y; \cdot)$ . The structural component of  $y$  is usually pre-specified and some of the parameters are fixed for identifiability reasons. 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 ... 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. Bayesian

local influence of semiparametric structural ... CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): 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 ... Bayesian semiparametric structural equation models with ... Bayesian Semiparametric Structural Equation Models with Latent Variables. ... No abstract is available for this item. Suggested Citation. Mingan Yang & David Dunson, 2010. "Bayesian Semiparametric Structural Equation Models with Latent ... "A Bayesian semiparametric factor analysis model for subtype identification," Statistical ... 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. 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. Bayesian Lasso for Semiparametric Structural Equation Models Bayesian Semiparametric Structural Equation Models with Latent Variables (PDF) Bayesian Semiparametric Structural Equation Models ... 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. 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](mailto:rguo@bios.unc.edu) **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 local influence of semiparametric structural ...](#) A Bayesian Modeling Approach for Generalized Semiparametric Structural Equation Models Article in Psychometrika 78(4):624-647 · October 2013 with 64 Reads How we measure 'reads' **Bayesian Semiparametric Structural Equation Models** CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): 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 ... [Bayesian Lasso for Semiparametric Structural Equation Models](#) A semiparametric Bayesian approach for structural equation models Article in Biometrical Journal 52(3):314-32 · June 2010 with 24 Reads How we measure 'reads' *Bayesian Lasso for Semiparametric Structural Equation Models* 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. *A semiparametric Bayesian approach for structural equation ...*

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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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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.

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