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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 ModelsIn 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 ModelsWe propose a semiparametric Bayesian approach using the truncated Dirichlet process with a stick breaking prior to tackle the non-normality of residuals in the measurement equation. Simulation studies and a real data analysis demonstrate our findings, and reveal the empirical performance of the proposed methodology. A semiparametric Bayesian approach for structural equation ...Bayesian Lasso for Semiparametric Structural Equation Models 569 we model M j fj (iij) = ^] Pjm j hjm j (£ij) (4) m j =1 as a linear basis expansion in , where {hjmj (•), m} — 1,,

Mj} are basis functions for &3, such as piecewise poly nomials and natural cubic splines, among many others (Hastie et al., 2009).Bayesia n Lasso for Semiparametri c Structural Equation ModelsStructu ral 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.Baye sian Semiparametri c Structural Equation Models with ...Bayesian Lasso for Semiparametri c Structural Equation Models 569 we model M j fj (iij) = ^] Pjm j hjm j (£ij) (4) m j =1 as a linear basis expansion in , where {hjmj (•), m} — 1,, Mj} are basis functions for &3, such as piecewise poly nomials and natural cubic[Books] Bayesian Semiparametri c Structural Equation Models ...proposed an alternative semiparametri c Bayesian approach, which characterizes the latent variables in a latent factor regression model using an additive model. This approach as-2Bayesian Semiparametri c Structural Equation

Models with ...Bayesian lasso for semiparametric structural equation models. Guo R(1), Zhu H, Chow SM, Ibrahim JG. Author information: (1)Departmen t of Biostatistics, University of North Carolina at Chapel Hill, USA. rguo@bios.un c.eduBayesian lasso for semiparametric structural equation models.In this study, we developed a Bayesian local influence procedure in the context of a semiparametri c SEM. We introduced a Bayesian perturbation model by perturbing p (y | ϖ, θ), p (θ), and p (ϖ | θ) to characterize perturbations to the data, prior distributions, and the sampling distribution. We use the first- and second-order local influence measures with Bayes factor as the objective function to quantify the degree of various perturbations to the interested feature of the analysis.Bayes ian local influence of semiparametri c structural ...derive an empirical Bayesian approach that allows us to estimate the prior smoothing hyperparamet ers from the data. An advantage of our semiparametri c model is that it is written as a seemingly unrelated regressions model with independent NormalWishar t prior. Since this model is a

common one, textbook results for posterior inference, model comparison, prediction and posterior computation are immediately available.Bayesian Semiparametric Inference in Multiple Equation Modelsthe context of multiple equation models, thus generalizing the class of models for which simple Bayesian semiparametric methods are available. In our discussion we focus primarily on the Seemingly Unrelated Regression (SUR) model. This model is of interest in and of itself, but is also of interest as the (possibly restricted) reduced form of a ...Semiparametric Bayesian Inference in Multiple Equation ModelsBasic and Advanced Bayesian Structural Equation Modeling introduces basic and advanced SEMs for analyzing various kinds of complex data, such as ordered and unordered categorical data, multilevel data, mixture data, longitudinal data, highly non-normal data, as well as some of their combinations. In addition, Bayesian semiparametric SEMs to capture the true distribution of explanatory latent variables are introduced, whilst SEM with a nonparametric structural equation to

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