



Stability of the Gibbs Sampler for Bayesian Hierarchical Models

http://www.firstlight.cn 2007-10-23

We characterise the convergence of the Gibbs sampler which samples from the joint posterior distribution of parameters and missing d ata in hierarchical linear models with arbitrary symmetric error distributions. We show that the convergence can be uniform, geometric or su b-geometric depending on the relative tail behaviour of the error distributions, and on the parametrisation chosen. Our theory is applied to cha racterise the convergence of the Gibbs sampler on latent Gaussian process models. We indicate how the theoretical framework we introduc e will be useful in analyzing more complex models.

<u>存档文本</u>

我要入编 | 本站介绍 | 网站地图 | 京ICP证030426号 | 公司介绍 | 联系方式 | 我要投稿 北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn