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*Robustness to Outliers in a Bayesian Simple Linear Regression Model*

In the field of statistics, and more precisely in a linear regression analysis context, data samples frequently contain outliers. Consequently, statistical inference can be contaminated, leading to results in disagreement with the majority of the observations. The least squares method in regression analysis is generally used but it can lead to inference which is not robust to outliers. This work deals with this problematic in a context of simple linear parametric Bayesian regression model. Indeed, theoretical results ensuring that the posterior inference is robust to outliers are described.