



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_23145
Title of the Manuscript:	COMPARISON OF LEAST SQUARES METHOD AND BAYESIAN WITH MULTIVARIATE NORMAL PRIOR IN ESTIMATING MULTIPLE REGRESSION PARAMETERS
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	There is no compulsory revision.	
<u>Minor</u> REVISION comments	Authors should describe how to determine the prior distribution of beta in brief given your sample data. This is the most important aspect of your research. For least square method, all coefficients are calculated via matrix operations.	The prior distribution of the beta was assumed to be multivariate normal. This is supported by the large data size [central limit theorem]. Please see page 3 .
<u>Optional/General</u> comments	The main contribution of this research is to make experiments on Least Squares Method (LSM) and Bayesian method for estimating coefficients of regression function. The experiment proves that Bayesian method is the better one when it results out much less standard error. The R^2 is most preeminent in regression model and it is more important than standard error. Authors should think more for further research.	The coefficient of determination of both the LSM and Bayesian method were computed and shown to be approximately equal. Please see page 8. In event of equal R^2 , the method with the smallest standard error is preferable. This is clearly stated in page 8, paragraphs 2 and 3 of the Discussion and Conclusion.