



**SDI Review Form 1.6**

Journal Name:	<a href="#">Journal of Advances in Mathematics and Computer Science</a>
Manuscript Number:	<b>Ms_JAMCS_47255</b>
Title of the Manuscript:	<b>Bayesian Estimation of 3-Component Mixture of the Inverted Exponential Distributions</b>
Type of the Article	<b>Original Research Article</b>

**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>)

**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)
<b>Compulsory</b> REVISION comments	<ol style="list-style-type: none"> <li>1. The authors need to examine, the performance of the Bayes estimators using non-informative and informative priors under different loss functions.</li> <li>2. What is their statistical properties for different sample sizes and test termination times?</li> <li>3. What are the practical significance, an illustrative example based on a real-life engineering data</li> </ol>	<ol style="list-style-type: none"> <li>1. Yes, In this paper completely examine the performance of the Bayes estimators using non-informative and informative priors under different asymmetric and symmetric loss functions.</li> <li>2. From simulated results, we observed that an increase in the sample size and test termination time provides better Bayes estimators. Furthermore, as sample size increases (decreases) the posterior risks of Bayes estimators decreases (increases) for a fixed test termination time.</li> <li>3. The inverted Exponential distribution plays a vital role in fields where the lifetime of certain components or things is of interest. The usual single component distribution often fails to describe the nature of real life phenomena. Thus, it necessitates the estimation and analysis of more than one component and this study tries to fill this gap. The motivation behind this study are the importance of inverted Exponential distribution, the advancement in the computer programming to date with complex expressions and the recent work on the estimation and analysis of the 3-Component mixture distributions.</li> </ol>
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		



**PART 2:**

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	