

Review Form 3

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|--------------------------|---|
| Journal Name: | Journal of Advances in Mathematics and Computer Science |
| Manuscript Number: | Ms_JAMCS_120970 |
| Title of the Manuscript: | THE LAPLACE TRANSFORM OF EXPONENTIATED LOGISTIC AND THE GENERALIZED INVERSE GAUSSIAN DISTRIBUTION. |
| Type of the Article | |

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

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PART 1: Review Comments

| Compulsory REVISION comments | Reviewer's comment | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|---|---|---|
| Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part. | The manuscript makes good case of developing a generalized exponentiated logistic type I and type II using Laplace transform. It applies the knowledge of the well-known concept of Laplace Transform to construct new distributions. It contributes to the development of new ideas in statistics | |
| Is the title of the article suitable? (If not please suggest an alternative title) | I would suggest that the title changes to "Application of Laplace transform to derive Exponentiated Logistic and Generalized Inverse Gaussian distributions" | |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | I would suggest the addition of the importance of the generalized logistic type I and II and Generalized Inverse Gaussian or the reasons as to why construct the distributions | |
| Are subsections and structure of the manuscript appropriate? | The sections and structure of the manuscript is okey | |
| Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part. | The manuscript makes good case of developing a generalized exponentiated logistic type I and type II using Laplace transform. The introduced distribution will enhance the knowledge base in statistics and in the world of modelling. Therefore, this manuscript would contribute immensely to the development of scientific knowledge. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | The author can try to add two or more of the recent references in this area of study. He has one of 2020 but I believe that there is some recent development in this area | |
| <u>Minor</u> REVISION comments Is the language/English quality of the article suitable for scholarly communications? | The author needs to add explanations on the derivation so that the reader can be able to follow the flow of the concept. The language is okey | |
| <u>Optional/General</u> comments | <ol style="list-style-type: none"> 1. I have indicated several mathematical problems in the manuscript. 2. The author needs to clearly show derivations used to arrive at the required concept eg. If you are substituting an equation into the other, show how certain terms cancel to arrive at the required concept 3. Sme mathematical expressions need to be relooked again to flush out any misleading expressions | |

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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> | |

Reviewer Details:

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|----------------------------------|--|
| Name: | Peter Githinji Murage |
| Department, University & Country | South Eastern Kenya University, Kenya |