

Review Form 3

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_127474
Title of the Manuscript:	G-Transmuted Pareto Distribution for Modeling Aircraft Windshields
Type of the Article	

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>
<p>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.</p>	<p>In this study, the authors introduced G-Transmuted Pareto Distribution with a three-component G-Transmuted Pareto Distribution. The statistical properties of G-Transmuted Pareto Distribution were well defined in the work and the reliability analysis using G-Transmuted Pareto Distribution also presented. The authors gave an Estimation of The Parameters and presented a simulation study to examine the mean square error (MSE) and average bias (Bias) of the parameters of the G-Transmuted of Pareto Distribution in table 1. Also, an application of the scheme was also considered in table 2 and table 3 where the flexibility of the new G-Transmuted Pareto Distribution was investigated based on a real data set as compared with some other competing distributions such as transmuted Lindely distribution, Monsef distribution, two parameter Exponential distribution and transmuted Monsef distribution. The estimated values of the parameters, log-likelihood statistics, Akaike information criterion (AIC), Bayesian information criterion (BIC), and the Kolmogorov–Smirnov (KS) statistics are presented in table 2 and table 3.</p> <p>The model represents an important improvement in the modeling of asymmetrical data by including three additional parameters through the transmutation process.</p> <p>The authors also indicated future research as to focus on empirical validation of the G-Transmuted distribution in various real-world datasets to assess its performance and robustness compared to other established distributions as a new direction of further study by interested researchers.</p> <p>The introduction is adequately presented with a brief and precise background to the study and general review of literature.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title of the manuscript, "G-Transmuted Pareto Distribution for Modeling Aircraft Windshields" is adequate but can be improved on. For instance, "Application of G-Transmuted Pareto Distribution for Modeling Aircraft Windshields"</p>	
<p>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.</p>	<p>The abstract is precise and detailed enough. The methodology was well pointed out and the significance of its applications and results/properties mentioned in the abstract.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The manuscript is well structured from title to references and no inadequate structure issue was identified</p>	
<p>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</p>	<p>The model introduced in the work is an extension of an existing model and provides a significant improvement on the previous model thereby making the paper scientific enough. The authors also provided simulation, using data and the application of the model was also well demonstrated in the work and the findings presented. The results presented in the work seems correct and are interested.</p>	

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sentences may be required for this part.	In addition, the authors provided further research direction arising from the current study.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =	All references are well cited and in the same way, all cited papers are adequately reference. However, the authors need to maintain one citation style and be consistent with it in the entire manuscript. For instance, the use of "introduced by Vilfredo Pareto in 1897 [1]" should rather be written as "introduced by the author in [1]" instead of using both citation style together. This correction should be done throughout the work, maintaining [1], [2], [3], ..., [15] and [16] in that manner. The references in the paper are relevant but not recent. Only two (2) out sixteen (16) references, representing % of the references are in the last 3 years (2019-2024). I recommend that the references should be improved to make it more current, with at least additional 2-3 papers between 2019 and 2024 included.	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Accepted after a minor correction	
Optional/General comments	The manuscript is recommended for publication in Asian Journal of Probability and Statistics after a minor correction	

PART 2:

	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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

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