

Review Form 1.7

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_113286
Title of the Manuscript:	A Generalized Suja Distribution with application to lifetime data
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:

(<https://www.journalajpas.com/index.php/AJPAS/editorial-policy>)

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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)
<p><u>Compulsory</u> REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1. This study generalizes the Suja distribution and presents a new lifetime distribution, the Kumaraswamy Suja distribution. Some of its fundamental statistical characteristics, including the probability density function, cumulative density function, rth crude and central moments, variance, coefficient of variation, skewness, kurtosis, and quantile function, as well as some reliability traits, including the reliability, hazard rate, cumulative hazard, and reverse hazard functions, have explicit mathematical expressions provided. The Rényi entropy was talked about. Furthermore, the distributions of first, largest, and rth order statistics were presented. The maximum likelihood estimate method was used to approach the estimation of the model parameters. Using actual data, the flexibility and application of the new lifetime distribution were demonstrated, and the findings showed that, when compared to all other relevant distributions, the Kumaraswamy Suja distribution offers the best fit. In the hopes that it would find widespread use in the future, the Kumaraswamy Suja distribution is advised for modelling unimodal or bimodal continuous lifetime data with a non-decreasing shape and bathtub-shaped hazard rate function.</p> <p>2. The title of the article is appropriate.</p> <p>3. The abstract is comprehensive.</p> <p>4. The article has proper subsections and hence structure of the manuscript seems to be good.</p> <p>5. The paper is well written scientifically.</p> <p>6. The article contains exhaustive references.</p>	
<p><u>Minor</u> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	Section 2 may be revised with reference to presentation of the paper.	
<p><u>Optional/General</u> comments</p>		

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

Reviewer Details:

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