

Review Form 1.7

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_100725
Title of the Manuscript:	Inverse Hamza Distribution: Properties and Applications to Lifetime Data
Type of the Article	Original Research 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>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript requires significant improvement in terms of writing quality and thorough revision to address the numerous typos present throughout the paper.</p> <p>In the literature review, it would be beneficial to include additional inverse models that have been considered, such as:</p> <p>Ramos, P. L., Louzada, F., Shimizu, T. K., & Luiz, A. O. (2019). "The inverse weighted Lindley distribution: Properties, estimation, and an application on failure time data." <i>Communications in Statistics-Theory and Methods</i>, 48(10), 2372-2389.</p> <p>Ramos, P. L., Mota, A. L., Ferreira, P. H., Ramos, E., Tomazella, V. L., & Louzada, F. (2021). "Bayesian analysis of the inverse generalized gamma distribution using objective priors." <i>Journal of Statistical Computation and Simulation</i>, 91(4), 786-816.</p> <p>Louzada, F., Ramos, P. L., & Nascimento, D. (2018). "The inverse Nakagami-m distribution: A novel approach in reliability." <i>IEEE Transactions on Reliability</i>, 67(3), 1030-1042.</p> <p>Contrary to the authors' claim, the new model cannot be considered as an extension of the Hamaza distribution, as it does not have the Hamaza distribution as a particular case.</p> <p>The presentation of the parameter estimation method is inadequate. The authors should provide a more detailed explanation of the methodology employed.</p> <p>I recommend including a simulation section to demonstrate the efficacy of the proposed parameter estimators and their ability to provide accurate results.</p> <p>In the application, apart from assessing the fit using AIC, it would be valuable for the authors to perform a goodness-of-fit test. I suggest considering the Kolmogorov-Smirnov test to determine if the model adheres to the cited distribution.</p> <p>By addressing these points, the manuscript will significantly enhance its overall quality and contribute to the advancement of the field.</p>	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 		
<p>Optional/General 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>	

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