

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>Theoretically yes, however author need to clarify the importance or contribution of his/her study.</p> <p>Yes, indeed.</p> <p>Yes, but need to include problem statement and contribution of study.</p> <p>Yes.</p> <p>Yes, but need attention in using the right terms of statistical/mathematical proving. Also, the proposed inverse Hamza distribution need to run in both, i.e. simulation study and application data.</p> <p>Yes.</p> <p>Suggestion/comment:</p> <ol style="list-style-type: none"> 1. What are the issues/problems in the Hamza distribution so that it is necessary to inverse the Hamza distribution? Is it in terms of parameters or what? 2. Is Hamza distribution unable to model lifetime data with a non-monotonous hazard rate character? Please give an example of the data lifetime in the Introduction. 3. For pdf and cdf of inverse Hamza distribution, please include the proposition and its proof, and also corollary (if necessary) and its proof. 4. Also, instead of writing the proposed equation, please include the proposition and its proof for survival function and hazard function. 5. In moments section, it is suggested to use "Proposition" instead of "Theorem". In manuscript, author write "Suppose X follows IHD ().Then the rth moment about the origin, of IHD is..", here, author clearly gives a statement, thus it is better write Proposition 1. 6. Same goes with "Theorem 2", it is suggested to use "Proposition 2" 7. For Section 11-Application on real data, it is suggested to include Kolmogorov-Smirnov test in order to show the appropriate use of cdf and pdf of inverse Hamza. And, the test significantly show if the proposed distribution fit well with the sample real time data, i.e. the expected result of proposed distribution giving largest Kolmogorov-Smirnov p-value. 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	<p>Yes.</p>	
<p>Optional/General comments</p>	<p>-</p>	

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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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