

Review Form 1.7

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_95897
Title of the Manuscript:	Classical and Bayesian estimation for the Dagum Distribution
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.journalcjast.com/index.php/CJAST/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> <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>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>1. The manuscript has the following structure: a lot of known methods, a lot of loss functions, a lot of references, a numerical example with many computational results and negligible scientific result. It seems like a student exercises or student coursework.</p> <p>2. The title of the article is suitable, however, the title "Classical and Bayesian estimations for the Dagum Distribution" will be better.</p> <p>The points 3–6 are appropriate.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>suitable</p>	
<p>Optional/General comments</p>	<p>1. Key Words: "Dagum Distribution" - misprint</p> <p>2. It is not clear in the formula (4) what are the functions $\overline{F}(t)$ and $\overline{F}(u)$. What are the limits for the integral?</p> <p>3. The formula $\frac{1}{n} \sum_{i=1}^n x_i^3$ in "3.2. Method of Moment" is incorrect</p> <p>4. Many notations require explanations. For instance, what are $P(\theta \underline{x})$ and $p(\theta)$? If they are probability density functions, then why not $f(\theta \underline{x})$ and $f(\theta)$ like the formula (2)? What is the m and P in "Extension Jeffery's priors"?</p> <p>5. To the formula (8): For the random variable X, The posterior density function of the shape parameter θ is:</p> <p>6. The sense of the sentence "It is simple to obtain the generation of the Dagum distribution using the inverse transformation, where U is a uniform on (0, 1)" isn't clear. The author doesn't generate the random numbers below but uses someone else's. So this sentence is subjected to deletion.</p> <p>7. "...summarised in Table 5". The table 5 is missing in the manuscript.</p> <p>8. The conclusions are negligible. For instance, "The risks are also seen to decrease as sample size increases". It is clear without calculations.</p> <p>9. The author should carefully read the manuscript again and correct all inaccuracies. It is the work for the author, not for the reviewer.</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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