

Review Form 1.7

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| Journal Name: | Asian Journal of Probability and Statistics |
| Manuscript Number: | Ms_AJPAS_118093 |
| Title of the Manuscript: | ASYMPTOTIC PROPERTIES OF A THREE PARAMETERS GUMBEL DISTRIBUTION ESTIMATORS USING SIMULATED DATA |
| Type of the Article | |

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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) |
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| <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>Gumbel distribution is the most used model in extreme value theory. The parameters for the developed distribution were estimated using Maximum Likelihood Estimation method and their asymptotic properties investigated using simulated data. The article demonstrates that a three parameters Gumbel model is flexible for fitting normal data, skewed data and extreme data sets with provision of unbiased and efficient estimators. Most of the distributions cannot achieve these properties together. This is highlighting your distribution from other models. Also, the consistency – correlation checking of the estimators are rare work among researchers. So, I think that it is a relevant important work for scientific community.</p> <p>Most suitable</p> <p>Yes, Its enough</p> <p>Fine</p> <p>Yes</p> <p>Sufficient</p> | |
| <p><u>Minor</u> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p> | <p>Yes, Suitable</p> | |
| <p><u>Optional/General</u> comments</p> | <p>Instead of using simulated data, Author can use real data following normal, Chi square and Weibull models and estimate the corresponding parameters of the model to check its consistency (standared erroe(se)) and correlation. Author can use another estimation techniques other than maximum likelihood estimation and illustrate what happened when the same situations.</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> |
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| 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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