



**SDI Review Form 1.6**

|                          |                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------|
| Journal Name:            | <a href="#">British Journal of Mathematics &amp; Computer Science</a>                                                  |
| Manuscript Number:       | 2014_BJMCS_10890                                                                                                       |
| Title of the Manuscript: | <b>Estimation of Pareto Parameters Using a Fuzzy Least-Squares Method and Other Known Techniques with a Comparison</b> |
| 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



**SDI Review Form 1.6**

**PART 1: Review Comments**

|                                            | <b>Reviewer's comment</b>                                                                                                                                                                                                                                                                       | <b>Author's comment</b> <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Compulsory</u></b> REVISION comments | <ul style="list-style-type: none"> <li>- Section 2.2 and section 2.3 the same title, suggested you to rename as your application distribution.</li> <li>- The contribution is not clear (specified).</li> <li>- Re-write citations, tables and references follow the SDI formatting.</li> </ul> | <ul style="list-style-type: none"> <li>- <b>Section 2.2</b> will be: TL-Moments and L-Moments estimators.<br/>Section 2.3 will be: LQ-Moments estimators.</li> <li>- <b><u>The contribution:</u></b> <ol style="list-style-type: none"> <li>1) - The TL-moments, L-moments and LQ-moments estimators are introduced for the two parameters Pareto distribution (New Results).</li> <li>2) – The Fuzzy least-squares estimators are introduced for the two parameters Pareto distribution (New Results).</li> <li>3) – A numerical comparison between different methods of estimation are obtained for the two parameters Pareto distribution to clear the difference between these methods (Maximum</li> </ol> </li> </ul> |



**SDI Review Form 1.6**

|  |  |                                                                                                                                                                                                                                                                  |
|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <p>likelihood, TL-moments, L-moments, LQ-moments (three cases: median, trimean and Gastwirth) and fuzzy least-squares) (New Results).</p> <ul style="list-style-type: none"><li>- The citations, tables and references will follow the SDI formatting.</li></ul> |
|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



**SDI Review Form 1.6**

|                                               |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b><u>Minor</u></b> REVISION comments</p>  | <ul style="list-style-type: none"> <li>- Have to write the (pdf and cdf) as to range value of RV's.(e.i.) <math>f(.) = \begin{cases} x, true \\ x, ow. \end{cases}</math></li> <li>- In the table you have to mention about the stars.</li> </ul> | <ul style="list-style-type: none"> <li>- The CDF will be:</li> </ul> $F(x; \alpha, k) = \begin{cases} 1 - \left(\frac{k}{x}\right)^\alpha, & k \leq x < \infty, k, \alpha > 0 \\ 0, & -\infty < x < k. \end{cases}$ <p>and the PDF will be:</p> $f(x; \alpha, k) = \begin{cases} \frac{\alpha k^\alpha}{x^{\alpha+1}}, & k \leq x < \infty, k, \alpha > 0 \\ 0, & -\infty < x < k. \end{cases}$ <ul style="list-style-type: none"> <li>- After every table putting:</li> </ul> <p>*: means The least biased value or the least root mean squared errors.</p> |
| <p><b><u>Optional/General</u></b>comments</p> | <p>Section 4 need some steps, it's not clear for the FLSEs.</p>                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>- Some steps will add to the section 3 and from section 3 we can find FLSEs in section 4 at the final modification.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                        |