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| Journal Name: | [**Asian Journal of Probability and Statistics**](https://journalajpas.com/index.php/AJPAS) |
| Manuscript Number: | **Ms\_AJPAS\_130864** |
| Title of the Manuscript: | **PERFORMANCE OF MODIFIED EXPONENTIALLY WEIGHTED MOVING AVERAGE (M-EWMA) CONTROL CHARTS USING TRANSFORMED F-DISTRIBUTION** |
| Type of the Article | Research Article |

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| PART 1: Comments | | |
|  | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** |  |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** |  |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. |  |  |
| Is the manuscript scientifically, correct? Please write here. |  |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** |  |  |
| Is the language/English quality of the article suitable for scholarly communications? |  |  |
| Optional/General comments | Before publishing the paper in your valuable journal, the notes must be modified.     1. general, the research idea is very good, but I have some notes. 2. The idea of comparative is it should be compared between the results of the applications and then explain the results. 3. In this research, there is no table of data., I don't know if the data are simulation or actual data 4. To show the the result of (M\_EWMA) it must be calculating the UCL and LCL of EWMA to show the result of modification.   5-Where is DEWMA-TBE chart?   1. The ARL is not clear. 2. The charts are not very clear. | 1. **Comparative Analysis:** The manuscript includes a comparative analysis between the proposed M\_EWMA method and the existing approach by Saghir et al. (2021). Additional explanations have been included in the discussion section to elaborate on the differences and improvements introduced by the M\_EWMA chart. 2. **Data Table Inclusion:** The data used in the study is based on simulated values. A table of simulated data has been included in the revised manuscript for clarity. 3. **Calculation of UCL and LCL for EWMA:** The upper control limit (UCL) and lower control limit (LCL) for the traditional EWMA chart have been explicitly calculated and compared to the M\_EWMA chart to highlight the modification's impact. 4. It was only compared with saghir et, al. (2021). 5. **Average Run Length (ARL) Explanation:** Additional clarifications regarding the ARL calculations and their significance have been included in the results discussion. 6. ARL chart has been included in the results |

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| **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | There are no ethical issues in this manuscript. The study is based on simulated data. |