

**Review Form 3**

Journal Name:	<a href="#">Asian Journal of Probability and Statistics</a>
Manuscript Number:	Ms_AJPAS_124816
Title of the Manuscript:	<b>Enhancing Model Monitoring and Quality Control: The Integration of Control Chart for Binomial Regression under the Principal Component Framework</b>
Type of the Article	

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**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	Reviewer's comment	<b>Author's Feedback</b> (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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This method uses binomial regression to model the relationship between an input variable and output variable, and then establishing control charts to detect any changes in the process over time. The author tries to find a combination between binomial regression and principal component analysis to monitor a process.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title can be improved: Tracking students' academic progress in higher education institutions using regression analysis	
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.	The abstract should be expanded. I suggest adding several sentences highlighting the contributions of this work to the state-of-the-art.	
Are subsections and structure of the manuscript appropriate?	The presentation of the writing can be improved. The introduction section could be more thorough. The discussion should be more detailed.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The authors should provide a more thorough discussion to justify the selection of the methodology. Otherwise, some readers may question it. The manuscript contains some figures and tables with the results from numerical experiments. Please try to provide a more detailed description of these figures and tables to make sure that the future readers will have a reasonable understanding of the main findings.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =	One of the major concerns regarding this manuscript is a lack of a solid literature review. The authors discuss some of the relevant studies in the introduction section, but the coverage seems to be very narrow. Many recent and important studies related to the subject were not acknowledged, including but not limited to the following: * Mongkoltawat, P., Areepong, Y., & Sukparungsee, S. (2024). Average Run Length Computations of Autoregressive and Moving Average Process using the Extended EWMA Procedure. WSEAS Transactions on Mathematics, 23, 371-384. * Phanyaem, S. (2024). Precise Average Run Length of an Exponentially Weighted Moving Average Control Chart for Time Series Model. Thailand Statistician, 22(4), 909-925. * Wilson, J. R., Lorenz, K. A., & Selby, L. P. (2024). Introduction to binary logistic regression. Modeling Binary Correlated Responses: Using SAS, SPSS, R and STATA, 3-18. * Haridy, S., & Benneyan, J. C. (2024). Shewhart-EWMA chart for monitoring binomial data subject to shifts of random amounts. Computers & Industrial Engineering, 110252. Without acknowledging the most recent and relevant studies, the manuscript may seem incomplete and/or outdated to some readers.	

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Minor REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	<b>In general, the language is suitable.</b>	
<b>Optional/General</b> comments	<b>Please provide more details regarding the input data used throughout the experiments. Some supporting references would be helpful to justify the data selection. The conclusions section should expand on limitations of this study and future research needs.</b>	

### **PART 2:**

	<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>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### **Reviewer Details:**

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