

Review Form 3

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_128625
Title of the Manuscript:	Comparison Of Some Estimation Methods Of Missing Data In Hidden Markov Model
Type of the Article	Research Paper

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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.	<p>This manuscript addresses a critical challenge in the analysis of time series data: the estimation of missing values, which is a common issue in various fields such as finance, healthcare, and environmental science.</p> <p>By comparing multiple estimation methods within the framework of Hidden Markov Models (HMMs), the study provides valuable insights into the effectiveness of different approaches under varying trend structures and sample sizes.</p> <p>The findings not only enhance the understanding of how to handle missing data but also contribute to the development of more robust statistical models, ultimately improving the accuracy of forecasts and analyses. T</p> <p>This research serves as a significant resource for statisticians and data scientists, guiding in selecting appropriate methods for missing data imputation based on the specific characteristics of their datasets.</p>	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	

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<p>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.</p>	<p>In abstract effectively summarizes the main findings, stating which methods perform best under different trend structures. Be consistent with abbreviations. In this paper researcher introduce "Mean Imputation (MI)" but later use "MDI" without explanation. Ensure all abbreviations are properly introduced. Consider breaking up the long sentence starting with "The results of the accuracy measures..." into two sentences for better readability.</p> <p>Overall, abstract provides a good summary of the research, but could be enhanced with a clearer structure and more attention to detail in writing mechanics. Remember, the abstract is often the first part of this paper that people read, so it's crucial to make it as clear and informative as possible.</p>	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>In introduction provides a comprehensive background on Hidden Markov Models and their applications, demonstrating a strong grasp of the subject matter.</p> <p>In methodology section is well-structured, clearly outlining the different methods used for estimating missing values (Mean Imputation, Median Imputation, Linear Interpolation, and Kalman Filter). In this research paper researcher provide mathematical formulas for each method, which adds rigor to his analysis.</p> <p>While researcher present a lot of technical information, the paper would benefit from more explanation of why this research is important and how it contributes to the field. Consider adding a brief section on the practical implications of findings.</p> <p>Be consistent with use of mathematical notation.</p> <p>Pay attention to sentence structure and clarity</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Double-check your formatting consistency. Some entries have different styles for dates (e.g., "2011" vs "Published: 6th July, 2011"). Be consistent with capitalization in titles. Some entries capitalize all major words, while others use sentence case. Add 5-7 references year 2019,2020 2021,2022,2023,2024.</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes</p>	
<p><u>Optional/General</u> comments</p>		

PART 2:

	<p>Reviewer's comment</p>	<p>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>
<p>Are there ethical issues in this manuscript?</p>	<p><u>(If yes, Kindly please write down the ethical issues here in details)</u></p>	

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Reviewer Details:

Name:	Mukta Agarwal
Department, University & Country	Indus University, India