

Review Form 3

Journal Name:	Asian Journal of Advanced Research and Reports
Manuscript Number:	Ms_AJARR_122638
Title of the Manuscript:	Spatio-Temporal Modelling of Land-use/Landcover Dynamics in Owerri west, Imo State Using Geospatial Technique
Type of the Article	Research Article

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PART 1: Review Comments

Compulsory REVISION 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>
<p>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.</p>	<p>This manuscript, Spatio-Temporal Modelling of Land-use/Landcover Dynamics in Owerri West, Imo State Using Geospatial Techniques, is important for the scientific community as it highlights the significant land-use and land-cover (LULC) changes that have occurred over the past 20 years within the study area. The study effectively demonstrates how advanced technologies like Remote Sensing (RS) and Geographic Information Systems (GIS) can be applied to monitor and analyze these changes. Such research is crucial for understanding the environmental impacts of urbanization, guiding sustainable land management, and informing policy decisions.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Yes, the title of the article, "Spatio-Temporal Modelling of Land-use/Landcover Dynamics in Owerri West, Imo State Using Geospatial Techniques", is suitable. It clearly reflects the content and focus of the study by mentioning the location, time frame, and methodologies (RS and GIS) used, making it both informative and relevant.</p>	
<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>The abstract is comprehensive but could be improved by clarifying the study's objective at the start. Mentioning software can be condensed for better flow. The key findings section, while detailed, should focus on summarizing trends instead of listing exact percentages repeatedly. Additionally, some grammatical corrections, such as using consistent capitalization (like "Imagery" - should be lowercase) and fixing minor errors (like "may vanish and replaced" should be "may vanish and be replaced"), would enhance readability. Simplifying these points will make the abstract more concise and engaging.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Yes, the subsections and structure of the manuscript are appropriate. They are well-organized and provide a logical flow, making it easy to follow the study's objectives, methodology, results, and conclusions.</p>	
<p>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.</p>	<p>The manuscript is scientifically robust and technically sound, employing well-established methods like Landsat imagery analysis to study LULC changes and predict future scenarios. The findings align with known patterns of urban expansion and forest decline, demonstrating coherence with existing literature. However, some gaps remain, such as limited exploration of socio-economic drivers, weather affects behind LULC changes and the absence of high-resolution data, which could enhance the precision of the analysis. Additionally, a more thorough uncertainty analysis and consideration of ecological impacts would strengthen the predictions. Despite these lacunas, the methodology and results are reliable for broad-scale environmental monitoring.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =</p>	<p>The references provided in the manuscript are not entirely sufficient for the study. To enhance the credibility and depth of the research, it is recommended that the authors include additional and more recent references, particularly in the sections on Material and Methodology, Results, and Discussion. This would ensure that the study aligns with current advancements and methodologies in the field. Including recent studies will also provide a broader context and strengthen the discussion by referencing up-to-date research.</p>	

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the article are generally suitable for scholarly communication, but there are areas that could be improved for clarity and precision. Some sentences are complex and could be simplified for better readability. Additionally, there are minor grammatical errors and inconsistencies that need addressing. Overall, while the manuscript conveys the necessary scientific content, refining the language and ensuring consistency will enhance its suitability for academic publishing. Author should correct the Grammar few of them enlisted below</p> <ol style="list-style-type: none"> Title: "cover dynamic" should be "cover dynamics" "built up" should be built-up" "forest will be totally in extinction" should replace with "forest will be completely extinct" "O2", "CO2" should be "O₂", "CO₂" 	
<p>Optional/General comments</p>	<p>Author should explain the following points:</p> <ol style="list-style-type: none"> The font type and size should be consistent throughout the manuscript to ensure uniformity and readability. The extent of the study area should be described as a polygon with specific coordinates (e.g., 5°N to 7°N and 6°E to 8°E) instead of as a single point for greater precision. The manuscript should elaborate on the number of ground truthing points used for each land-use/land-cover class, as well as the points used for training and accuracy assessment. The unit of measurement on the y-axis is missing in Figures 3C, 4C, and 5C and should be included for clarity. The resolution of the images and relevant metadata should be mentioned to provide context for the data used in the study. The manuscript should describe the model used for predicting land-use/land-cover changes, including its methodology and the parameters involved. It is recommended to add more recent and relevant references in the Discussion section to strengthen the analysis and interpretations. The parameters used for predicting changes in land-use/land-cover should be specified to clarify the basis of the predictions. The impact of weather conditions during the study period on the analysis should be discussed to account for any potential effects. Ensure that local socio-economic parameters are not included in the statistical analysis if they are not relevant to the study. In the case of statistical analysis, specifically trend analysis for predicting future changes in land degradation, the author used only a 3-point data set. The author should explain how this approach adheres to statistical principles and justifies the reliability of the analysis. Elaborate more about summary of overall classification accuracy. 	

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><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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