



SDI Review Form 1.6

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_35294
Title of the Manuscript:	Geospatial Modeling and Prediction of Land Use/Cover Dynamics in Onitsha Metropolis, Nigeria: A Sub-Pixel Approach
Type of the Article	Original Research 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:

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PART 1: Review Comments

	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)
Compulsory REVISION comments		
Minor REVISION comments	1. In The Chapter 1. Introduction there is not found the objectives of this work. It is necessary included in the finals paragraphs of this chapter. If is this paragraph: "This study therefore adopted the VIS-Water approach with the aid of the Linear Spectral Analysis (LSMA) to characterize, model and predict future LU/C of Onitsha etropolis, in Anambra State, Nigeria", in necessary improved. 2. Chapter 2, subchapter 2.3 line 3: what does it mean: Spatial and aspatial ?. This paragraph need improve writing. 3. Figure 1, there are a lot of maps in the box, and the quality in not good. It's enough only two maps of Anambra state and Nigeria in the context of Africa. 4. Chapter 2, subchapter 2.4. The title should say: Satellite images used, and describe the images used and their characteristics, as well as the pre-processing (correction). 5. Page 7, Chapter 2, Subchapter 2.6 Statical Analysis. This study made use of the non-parametric Chi-square test. But why not Regression Tree Algorithm?. The regression tree algorithm conducts a binary recursive partitioning and produces a set of rules and regression models to predict a target variable (percent imperviousness) based on training data. 6. Page 5 Table 2. Suggest eliminate this table, since the values of the ND are percentages of reflectance that change when performing a multitemporal comparison with different types of sensors. 7. Page 8, first paragraph must be improved, particularly: "... All these were computed accordingly and presented appropriately using graphs and maps." 8. Figure 6 and 7, de quality is not good, Most be improved. Figure 7, In the x-axis, they are percentages?, Must correct. Idem fig 9. 9. Chap 5 Conclusions, need improved writing. Omit to say that ... "this study gives more credibility or credence" ... With respect to which method or what?. In a paper the author should not overestimate the quality of his work. Delete this sentence.	1. A change has been made in this section. Editor's Comments: Okay Author's Feedback: Thank you 2. The writing in the area pointed out has been improved as pointed out.. Editor's Comments: Spatial and aspatial are not defined. Actually, the phrase '...spatial and aspatial data campaign...' should be clarified Author's Feedback: Okay 3. The maps show how the urban area was delineated. In this case, it followed a gridded system, since urbanization, technically do not follow geopolitical boundary. Editor's Comments: Reduce the number of maps to 1 (Anambra State with an inset of Nigeria). Author still has unnecessary and ineligible maps Author's Feedback: Okay 4. Table 1 was created to show the satellite images used and a description of their characteristic was presented, however Chapter 2, subchapter 2.4 maintains its heading as image preprocessing. Editor's Comments: Okay. But is it processing or pre-processing? Clarify the sub-heading of 2.4 Author's Feedback: Okay 5. The authors were only interested in establishing if the change in LU/C was significant in the future (2031). The Markov chain and Cellular automata models were however used to produce the set of rules upon which prediction was made possible. Editor's Comments: Okay. But then specify the categories of LU/C subjected to X² analysis. Author's Feedback: Okay 6. This table can serve as guide for other authors who intend to carry out a similar work, especially in the region. However, the table shows digital numbers that characterize each land use/cover category, rather than %s. Editor's Comments: Okay. But specify the unit of the values.



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		Author's Feedback: Okay 7. Modified. Editor's Comments: Okay Author's Feedback: Thank you 8. Modified. The Land Change Modeller does not display graphs showing units of measurement. The x-axis is in square kilometers (sq.km). Editor's Comments: Provide the legend for the x-axis. This applies to figures 9 and 10 as well. Author's Feedback: Okay 9. Change made as pointed out. Editor's Comments: Okay Author's Feedback: Thank you
Optional/General comments	References, only one of 2015 in your list. You need include most recently references (2016 and 2017) in this manuscript.	Two references have been provided. Meanwhile, other slight modifications as may be suitable can be added to the work. This will however be subject to ratification by the authors. Editor's Comments: Okay