

### **SDI Review Form 1.6**

Journal Name:	Journal of Geography, Environment and Earth Science International	
Manuscript Number:	Ms_JGEESI_48088	
Title of the Manuscript:	Estimation of Biomass and Leaf Area Index in the Western Ghats'Forest Ecosystem by the Integrated Analysis of Hypers	
Type of the Article	Original Research Article	

#### General guideline for Peer Review process:

This journal's peer review policy states that <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, 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:

(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

## erspectral Data and Space Borne LiDAR Data



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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		
	• The abstract has provided unnecessarily too long background information (six lines, almost 50% of the abstract). It should be brief and revised to not more than 2 lines.	
	• The objective of the study is not clear/has been distorted due to grammatical errors, e.gsee line 14 and 15 "The main objective of the given study is the biophysical characterisation in the Western Ghats regions of India by the integration of GLAS ICESat data and AVIRIS hyperspectral data" It should be corrected to read, "The objective of this study was to undertake biophysical characterisation in the Western Ghats regions of GLAS ICESat data and AVIRIS hyperspectral data" It should be corrected to read, "The objective of this study was to undertake biophysical characterisation in the Western Ghats regions of India by the integration of GLAS ICESat data and AVIRIS hyperspectral data"	
	Abstract should provide a concise summary of the study methodology.     The shotcast should also provide a concise summary of low findings, instead of merchy siving shuipus statements of a "The results indicated that integration of LiDAD	
	<ul> <li>The abstract should also provide a summary of key findings, instead of merely giving obvious statements, e,g, "The results indicated that integration of LiDAR with AVIRIS data enabled forest species discrimination and biophysical parameter retrieval successfully with abundant spectral information than in the case of multispectral imagery"</li> </ul>	
	The abstract should further provide a brief conclusion and policy recommendations. Research is conducted so as to inform policy	
	<ul> <li>In summary, the author should organise the entire abstract to concisely cover – brief background information, study objective, methodology, findings, conclusions and recommendations</li> <li>INTRODUCTION</li> </ul>	
	The author should indicate the source of literature in paragraph 1, through citation, assuming that these are not his words	
	Remove repetition in line 43 lot of lot of	
	<ul> <li>Correct grammar on line 38 and 40 Remote sensing technologies have found to overcome the limitationsby adding the word been between the words have and found</li> </ul>	
	<ul> <li>On line 50-52, the statement "Several studies showed the estimation of biophysical parameters by the fusion of optical as well as LiDAR data. But the multispectral remote sensing is limited by the number of bands." Which are these studies?</li> </ul>	
	• In the last paragraph (lines 85-88) the objective of the study is still not clear as it is not consistent with the objective that had been stated under the Abstract. The author should adopt one consistent declaration of the study objective. Avoid using non-academic words like The main objective of the work isinstead correct to read, "The objective of this study was to" Further, since study had only one objective, the word, "main" should be dropped. I recommend that the objective may be stated as follows -	
	To extract biomass and Leaf Area Index(LAI) for Mudumalai and Sholayur forests of Western Ghats, India, through integration of AVIRIS-NG imagery and ICESat GLAS data	
	STUDY AREA	
	<ul> <li>The author should provide the justification for choosing Mudumalai and Sholayar reserved forests as study areas.</li> <li>Figures 1 (a) and (b) are not clear. The forest covers are not clearly discriminated from the adjoining land use cover.</li> </ul>	
	MATERIALS AND METHODS	
	<ul> <li>Section 3 (DATA SET USED) and section 4 (METHODOLOGY) should be merged to form a section called MATERIALS AND METHODS. This is because data used are usually described under one section. The merged section should then be structured under two major corresponding subsections.</li> <li>Figure 4 should first be described then presented. That is, the author should give a brief description of the figure</li> </ul>	
Minor REVISION comments	The entire document should be edited to correct common grammatical errors/inconsistencies	
Optional/General comments		
	The study has empirically demonstrated how forests health conditions may be assessed using geospatial technology.	

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## PART 2:

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

As per the guideline of editorial office we have followed VANCOUVER reference style for our paper.

# Kindly see the following link:

http://sciencedomain.org/archives/20

## **Reviewer Details:**

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