

Review Form 1.7

Journal Name:	Asian Journal of Research in Agriculture and Forestry
Manuscript Number:	Ms_AJRAF_102513
Title of the Manuscript:	THERMODYNAMIC ENTROPY: A NATURAL METRIC FOR LANDCOVER CLASSIFICATION
Type of the 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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Yes, author has used LST algorithm to calculate surface entropy flux for various LULC.</p> <p>No, Try to change the tilte.</p> <p>Yes</p> <p>Yes</p> <p>Somewhat</p> <p>No, should add recent article and related article Reiners, P., Sobrino, J., & Kuenzer, C. (2023). Satellite-Derived Land Surface Temperature Dynamics in the Context of Global Change—A Review. <i>Remote Sensing</i>, 15(7), 1857.</p> <p>Wang, R., Hou, H., Murayama, Y., & Dourdori, A. (2020). Spatiotemporal analysis of land use/cover patterns and their relationship with land surface temperature in Nanjing, China. <i>Remote Sensing</i>, 12(3), 440.</p> <p>Zhang, Q., Wu, Z., Singh, V. P., & Liu, C. (2021). Impacts of spatial configuration of land surface features on land surface temperature across urban agglomerations, China. <i>Remote Sensing</i>, 13(19), 4008.</p> <p>Yuvaraj, R. M. (2020). Extents of predictors for land surface temperature using multiple regression model. <i>The Scientific World Journal</i>, 2020.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>No, Have to improve</p>	
<p>Optional/General comments</p>	<p>Comments:</p> <p>Author must mention the importance of choosing this study area.</p> <ul style="list-style-type: none"> • Author failed to mention the clear aim and objective of the study. • Author has failed to mention, why they have selected the year 2013, 2015 and 2017 for the study. • I suggest the author to take recent year for the study; it is been 6 years from 2023. • I suggest the author to include recent reviews that is 2022 and 2023. I know lots of study has been published in LST in international journals. 	

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	<ul style="list-style-type: none"> • I recommend the author to make separate LULC for the study area. • Give expansion of DOS • In methodology part author failed to mention how to find radiance value. • In Equation 6, author mentioned T as top of atmosphere but that equation for brightness temperature • Author failed to indicate the calculation of TOA. Which can be calculate by using the equation $TOA(L) = M_L * Q_{Cai} + A_L - O_i$ • Author have to inform which month September or October for wet season. • Author have to include more literature review related this topics. • R square value for SEF and LST for dry season is less 2013 as compared to 2015 why this is so much difference • Similarly, SEF and LST for wet season is less in 2015 as compared to dry season, justify it • Similarly, for SEF between NDVI and SEF between LULC justify it. • Author failed to explain the p-value coefficient value for LST, LULC and NDVI for wet and dry season in regression output. 	
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PART 2:

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

Reviewer Details:

Name:	Yuvaraj R M
Department, University & Country	University of Madras, India