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AgeoS2020 Submission 10

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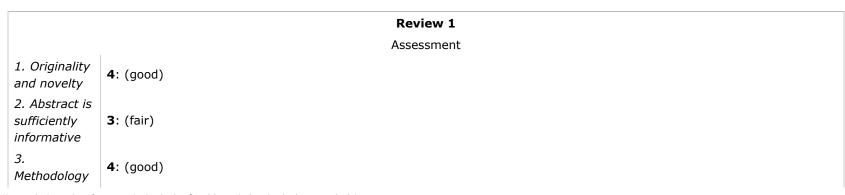
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Submission 10	
Title	Land Suitability for Potential Jatropha Plantation in Malaysia
Paper:	📁 (Sep 17, 22:22 GMT) (previous versions)
Author keywords	Jatropha Plantation GIS AHP
EasyChair keyphrases	jatropha plantation (270), rainfall temperature elevation (142), jatropha curca (100), land suitability (90), temperature elevation soil (79), pairwise comparison matrix (79), land suitability map (79), selected criterion (60), rainfall temperature (54), geographic information system (47), parameter parameter rainfall (47), analytical hierarchy process (47), parameter rainfall temperature (47), gi based land suitability assessment (46), temperature data (40), peninsular malaysia (40), jatropha production (40), fossil fuel (40)
Topics	Full Manuscript (Oral Presentation)
Abstract	Malaysia has embarked on several initiatives and policies towards renewable energy for improving environmental quality. Jatropha Curcas is an oil seed-bearing plant, which potentially yields as a source of energy in the form of biodiesel. However, research on the determination of the potentially suitable area of Jatropha plant can be allocated still limited. This study aims to carry out a land suitability study on the Jatropha plantation using the geospatial technique. To achieve the aim, the objectives of this study are to i) determine significant weightage of parameters for Jatropha plantation and ii) identify the suitable location Jatropha plantation. The study area is carried out at peninsular Malaysia and five (5) variables such as rainfall, temperature, land-use, soil and elevation data were used to achieve the analysis. The analytical hierarchy process (AHP), in the combination of Geographical Information System (GIS) methods, was applied to compute the weightage of the selected criteria, which is in geospatial data types. A map of the potential Jatropha location was generated using the criteria weightage. This study can help the cultivation of jatropha in suitable areas and may reduce the burden on fossil fuels. It can assist smallholder-based initiatives to promote Jatropha cultivation on farmer-owned to enhance their living circumstances.
Submitted	Dec 14, 04:09 GMT
Last update	Dec 14, 04:09 GMT

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Reviews

Review 1
Assessment

1. Originality and novelty	**4**: (good)
2. Abstract is sufficiently informative	**3**: (fair)
3. Methodology	**4**: (good)

4. Results	**4**: (good)
5. Discussion & Conclusion	**4**: (good)
6. Figure and Tables	**4**: (good)
7. Significance of the study	**4**: (good)
8. Scientific Soundness	**4**: (good)
9. Language quality	**4**: (good)
10. Comments to Authors	Please clarify the decision makers involved in the pairwise comparison of the criteria. The author has declared that it the ranking was merely based on the author's perspective. If this is being adopted, then the author has to provide some background of his/her expert knowledge in the plantation of Jatropha. Overall, this paper has the scientific contribution to be accepted.

Review 2

Assessment

1. Originality and novelty	**3**: (fair)
2. Abstract is sufficiently informative	**3**: (fair)
3. Methodology	**3**: (fair)
4. Results	**3**: (fair)
5. Discussion & Conclusion	**2**: (poor)
6. Figure and Tables	**3**: (fair)
7. Significance of the study	**3**: (fair)
8. Scientific Soundness	**3**: (fair)
9. Language quality	**3**: (fair)
10. Comments to Authors	Abstract - what geospatial technique? Be specific. Very little explanation on the study area. Expand more and include appropriate figures..

Why did the author select 5 criterias, the krigging method and AHP? How does the implemented methods offers significant improvement in the study? Why "several" geospatial datasets? The authors must be confident amount of data incorporated in the study.

The identified area stated in the study refers to the states? Suppose be specific the name of the places.