

**Review Form 1.7**

Journal Name:	<b>Journal of Geography, Environment and Earth Science International</b>
Manuscript Number:	<b>Ms_JGEESI_119383</b>
Title of the Manuscript:	<b>Determination of Terrain Variables from Digital Elevation Model Using 2-D Estimation Attribute of Kalman Filtering Technique</b>
Type of the Article	

**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>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)</b>
<p><b>Compulsory REVISION comments</b></p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p>1- I think the subject is good</p> <p>2- Yes, it's suitable.</p> <p>3- Yes</p> <p>4- Yes</p> <p>5- I think that the action steps mentioned in the methodology were not explained sufficiently and the researcher confined himself to mentioning and deriving the equations only.</p> <p>6- The number of sources is few and some of them are old. I recommend citing recent sources</p>	
<p><b>Minor REVISION comments</b></p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>1- Yes</p>	
<p><b>Optional/General comments</b></p>	<p>1- The researcher need to insert figure explain ALOS DEM (material data) and the source of this data ( website like" USGS or glovis", ....etc).</p> <p>2- In Section 4.1 "Research Materials" and Section 4.2, Line 2: The researcher mentioned "DTM" as the source of data, but this contradicts what is stated in the abstract section, whereas he mentioned "DEM" data</p> <p>3- In Figure 7: The values elevations are the same and there is a very small difference between them. Can this small change be taken into consideration? Note that the terrain in Figure 4 is clearer than in Figure 5, which hides the features and edges of the terrain</p> <p>4- The researcher did not mention the devices used to obtain Ground Survey Values, and there is a large difference in the elevations values extracted from the ground survey methods and the DEM method. This difference reaches more than 5 metres,and this is not permissible in the science of surveying.</p> <p>5- Conclusion section too short.</p> <p>6- Some of sources are incomplete.</p>	

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**PART 2:**

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

**Reviewer Details:**

Name:	<b>Mohammed Kareem Sameer</b>
Department, University & Country	<b>Middle Technical University, Iraq</b>