

Review Form Response

Review FOSS4G Academic Track Submission

This form is for reviewing a FOSS4G Academic Track Submission.

Remarks to the editors *

None, please see comments to authors.

Remarks to the author

The paper deals with the use of human-machine interaction techniques and more specifically with the use of gestural interactions in order to explore spatiotemporal data displayed on a 3D globe. Different open source software packages and open data are used to implement the prototype used to experiment and assess the ease-of-use of the system and the interactions. The prototype and the results of the assessment study are presented in the paper.

The paper is well structured, well illustrated and easy to read. The topic is relevant to the themes of the conference. The contribution is to my mind innovative and interesting, even if more details at different places in the paper would have been appreciated.

I recommend thus the selection for presentation of the paper and its publication if authors take into account the following points:

- 1) In figure 1, please add a note to specify that elements behind the users are posters that explain what are the different gestural interactions offered by the system.
- 2) top of page 7, please add more details on how the integration process has been performed and about the application you have developed in order to achieve it.
- 3) Section 3.2, figure 4 presents a 3d choropleth map. Please argument on the risks of misinterpretation of this kind of representation. Add references on this point.
- 4) Page 14, figure 7, please a) present what NASA TLX is and what are its different components, it is difficult for a non familiar reader to understand exactly what it evaluates, b) comment why the performance values are higher than the others (mental, physical, ...).
- 5) Last paragraph on page 15, please provide explanations on from where these problems come and what could be the insights in order to solve them.
- 6) Section 5, page 16, last paragraph: It would be interesting to have more details about the difficulty you faced with the displaying/processing of a large amount of data, what are the limits of your solution, how they could be overcome
- 7) In conclusion, you mention the use of aggregation procedures, please consider the use of open source Spatial OLAP such as GeoMondrian (<http://www.geo-mondrian.org>). They are designed to enable the real-time analysis of large amount of multidimensional data at different levels of details (space, time, etc.) and hence their live aggregation.

Recommendation *

- Strong Accept and recommendation for inclusion in Transactions in GIS
- Strong Accept
- Weak Accept
- Reject

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* Denotes required field

