

Review of: "Exploring the Impact of Future Land Uses on Flood Risks and Ecosystem Services, With Limited Data: Coupling a Cellular Automata Markov (CAM) Model, With Hydraulic and Spatial Valuation Models"

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Potential competing interests: No potential competing interests to declare.

Comment on "Exploring the Impact of Future Land Uses on Flood Risks and Ecosystem Services, With Limited Data: Coupling a Cellular Automata Markov (CAM) Model, With Hydraulic and Spatial Valuation Models"

Authors: Angelos Alamanos

The author investigated the impact of future land cover changes on flood inundation in northeast Indiana, US. The author employed a Cellular Automata Markov (CAM) model in combination with Geographic Information Systems (GIS) and Python.

In general, the research topic the author raised is interesting. He has demonstrated how Python programming can be used to predict land use change together with other existing approaches. This is a good thing for people who are engaged in similar topics, and it contributed to the scientific community. However, the following points need to be addressed before the paper is published.

Specific comments

1. There are a few issues with English language use (grammatical), and this needs to be addressed with the help of a native or fluent speaker.
2. The result on the accuracy of the python-based land use prediction system is not presented in the Abstract. Please indicate such important results in the abstract.
3. The author needs to justify why the python-based approach was used for the land use prediction by assessing already existing CAM-based models such as SLEUTH, IDRISI, DYNACLUE. Unless the author justifies the need for developing the new approach, the study is considered simply as an exercise of the programming skills of the author.

Concluding remark

As stated earlier, the author has proposed a new method for land use prediction. This is a good thing. However, when proposing a new method, it is always recommended to identify the drawbacks of existing methods. In this sense, the introduction part of the paper needs to be well strengthened. On the other hand, the paper is well structured and, with slight editing work, the language use can be improved further. Therefore, I recommend the paper be published in your journal after the author addresses the three specific issues given above.