

## ***Interactive comment on “Integration of Remote Sense and Geographic Information Systems in Geological Faults Detection in Crete Island, Greece” by Mohamed Elhag et al.***

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Dear authors, the idea on which the manuscript is based is interesting and can be followed, but I think that the work, as is presented, reveals immature. For my point of view the manuscript has a lot of dark sides. I try to summarize them as questions:

1) why do you mention the anatolian fault zone? i think that there isn't direct relationship with the study area; 2) what sentinel2 data do you use? a single or multiple images? of which period? No information about this aspect are treated. 3) One of your aim is the fault detection. Attention! not all the fractures or surface failures are faults..the fault implies a kinematic! 4) What is your integration criterion? it isn't clear how you integrate

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the satellite data and the GIS information; 5) what kind of GIS layers do you use? I suggest you to consider also the structural map of the study area. It seems that not all the known faults have been individuated.

All these points represent critical aspects that aren't discussed. For these motivation i suggest to reject the manuscript in the present form encouraging the author to deeply work on this idea. best regards,

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