

***Interactive comment on* “Brief communication: Vehicle routing problem and UAV application in the post-earthquake scenario” by Marco Cannioto et al.**

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We thank the reviewer for taking time to read our paper and to give us his/her comments. The main comment of the reviewer is about the choice of the methodology. Actually, the presented method (Simulated Annealing) has been chosen after being tested against another method, the Genetic Algorithm. The performances of the latter, in terms of computational time and robustness of the solutions, were clearly inferior with respect the Simulated Annealing. We think that is out of the objectives of the paper to present a comparisons between the two different explored methods, accordingly we focused just on the most promising algorithm. However, in the final version of the

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manuscript we will make clear to the reader that the method has been selected after being tested against another one. Moreover, as well the previous reviewer, he points out the lack of the clear statement for the mission of the UAVs. In the final version of the manuscript we will better indicate the objectives of the mission (surveying as fast as possible) and make clearer our assumptions.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2017-192>, 2017.

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