

Review of: "Modelling of Quadcopter for Precision Agriculture and Surveillance Purposes"

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Potential competing interests: No potential competing interests to declare.

The paper provides a thorough description of UAV applications for precision agriculture and derives the dynamics of a quadcopter system. However, the analysis is quite simplistic since it only provides results for a single configuration of the quadcopter. The analysis would benefit from analyzing the effect of different payloads (effect of different mass values) and a payload with diminishing mass (which would emulate the case in which water, fertilizer, or pesticide is applied). Furthermore, it would be useful to discuss the requirements of the power system composed of the battery, the motors, and the propellers, since this is crucial for appropriate flight performance, as is briefly mentioned in the discussion section. I'd also suggest analyzing and discussing the effect of closed-loop control on trajectory tracking, since this is crucial for aerial mapping and precision agriculture. Finally, there are some typos in the document. For example, I think there's a d/dt term missing at the beginning of equation (18).