# ACRESCENTAR POSSIVELMENTE TESE

## INTRO

Unmanned aerial vehicles (UAVs) have attracted considerable research attention due totheir variety of applications. Search and rescue, medical product delivery [1,2], mapping [3],agricultural [4–6] and surveillance [7–9] operations are just some of the areas where UAVs are being deployed.

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3.Phan, C.; Liu, H. Dynamic Mapping of Forest Fire Fronts Using Multiple Unmanned Aerial Vehicles. In Proceedings of the AIAAGuidance, Navigation, and Control Conference, Toronto, ON, Canada, 2–5 August 2010. [CrossRef]

4.Kim, J.; Kim, S.; Ju, C.; Son, H.I. Unmanned Aerial Vehicles in Agriculture: A Review of Perspective of Platform, Control, andApplications.IEEE Access2019,7, 105100–105115. [CrossRef]

5.Lin, Z.; Liu, H.H.T.; Wotton, M. Kalman Filter-Based Large-Scale Wildfire Monitoring with a System of UAVs.IEEE Trans. Ind.Electron.2018,66, 606–615. [CrossRef]

6.Ju, C.; Son, H.I. Multiple UAV Systems for Agricultural Applications: Control, Implementation, and Evaluation.Electronics2018,7, 162. [CrossRef]

7.Segui, M.; Sugar Gabor, O.; Koreanschi, A.; Botez, R.M. Morphing wing application on Hydra Technologies UAS-S4 IASTEDModelling. In Proceedings of the IASTED Modelling, Identification and Control 2017 Conference, Innsbruck, Austria, 20–21February 2017

## DYNAMICS

m; the inertial frame corresponds to the altitude and position (𝑥,𝑦,𝑧) and to the attitude (𝜙,𝜃,𝜓) of the quadrotor, while the angular (𝜔௫,𝜔௬,𝜔௭) and linear (𝜈௫,𝜈௬,𝜈௭) velocities are used to define the body-fixed reference frame.

## WIND

. efeito nos propellers:

.*A propeller model for general forward flight conditions (Khan’s model)*

*. Influence of Aerodynamics and Proximity Effects in Quadrotor Flight*

* Ground effect: ignorado quando z/R>2 [W. Johnson. Helicopter Theory. Princeton University Press, Princeton, NJ, 1980.]

. efeito na fuselagem

. *Accurate positioning of multirotor UAVs for civil infrastructure monitoring*