Introduction to ICUAS Paper:

* Increased popularity of UAVs may lead to malicious use
* The gap between a UAVs class and countermeasures is large
* Multi-rotor UAVs may be guided to intercept and follow a potentially harmful UAV
* Missiles follow and intercept targets using proportional navigation guidance and estimate target position with on-board sensors and ground radar
* PN guidance may used for guiding a multi-rotor UAV to intercept and follow potentially hostile UAVs using on-board sensors subject to high uncertainty
* Intercept and following has applications in autonomous flight formation, swarming, and loyal wingman scenarios as well
* The objective was to use a modified PN guidance with uncertain position information to reduce the distance to target. . .