Introduction to ICUAS Paper:

* Multi-rotor sUAS may be guided to passively track and follow a another sUAS
* Direction and ranging sensor tech for sUAS currently only provides a highly uncertain position estimation

Proportional navigation guidance has been used by missiles to track targets

* PN guidance may useful for guiding a multi-rotor UAV to intercept and follow other sUAS
* 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. . .

Multi-rotor sUAS may be guided to passively track and follow another sUAS. Direction and ranging sensor technology for sUAS currently only provides a highly uncertain position estimation. Proportional navigation guidance has been used by missiles to track targets. PN guidance may be useful for guiding a mutli-rotor sUAS to intercept and follow other sUAS. 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 distance to another sUAS.