

Prediction-based Guidance

Reference
Generator
&
Motion
Prediction

Reference
position &
predicted
position of the carrier

Glide-path
Tracking
Guidance

Flight-
path
command

Flight-path Controller

Outer-loop
Controller

Throttle command

Angular
rate
command

Inner-loop
Controller

Actuator
commands

Actuator

UAV
Dynamics



Carrier position (current)

Position of UAV

Flight path angles,
incident angles w.r.t.
wind frame

Body angular rates



Carrier