DESIGN AND IMPLEMENTATION OF FUZZY PREDICTIVE CONTROLLER FOR ACTUAL HIGH TRACKING ON UNMANNED AERIAL VEHICLE (UAV)

Nama : Thorikul Huda
Pembimbing : Ir. Rusdhianto Effendie A.K, MT

ABSTRAK

Needs unmanned aerial vehicle in monitoring places that are difficult reach to people is desperately needed, mountains is one of the place that are reach by people the contour of mountains are not necessarily complicate the movement aircraft, it take the controllers that able to keep attitude aircraft flying of contour earth’s surface.

Selection of fuzzy predictive controller as a controller for autopilot control systems because of Fuzzy Predictive controller is one of the intelligent controller, because it needs intelligent controller to maintain the stability of the aircraft in a difficult route and the reliability of this controller is quite high.

From the results of data analysis and performance testing of fuzzy predictive controller is able to respond in accordance with the desired (input), prediction of aircraft altitude and pitch angle helps reduce errors that occur.

Kata kunci : fuzzy predictive, UAV, Longitudinal motion
(Halaman ini sengaja dikosongkan)