Descending and Landing Control System for a Helicopter by using Fuzzy Logic Theory

Myo Min Zaw, Nwe Nwe

University of Computer Studies, Mandalay

myominzaw45@gmail.com

Abstract

The implementation of a helicopter descending and landing control system is presented. Descending and landing is to maintain the glide slope and heading and to reduce gradually airspeed and height from a point of altitude (above ground) to the ground point (Landing Field). Landing is the reverse of takeoff and must be decelerated instead of accelerated. In descending and landing, this system is based on an artificial intelligence and can be aware of the control strategy of pilots in the final descend and landing approach of a helicopter. The system used fuzzy logic theory for safety landing and avoid the damage. Simulation proved the feasibility of the targeted approach.