COMPARISON OF FLIGHT CONTROL SYSTEM DESIGN METHODS IN LANDING

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ABSTRACT

Intelligent control theory usually involves the subjects of neural control and fuzzy logic control. The great potential of intelligent control in control designs has recently been realized in the literature. In this survey paper, we attempt to employ this subject and provide the reader with an overview of related topics, such as conventional, fuzzy logic-based, neural net-based adaptive control techniques. Practical control schemes realistically applicable in the area of control system design are introduced. The control laws are demonstrated on a three-degree-of-freedom simulation with linearized aerodynamic and engine models. This paper deals the issue of aircraft landing maneuvers. Generally this part of flight needs to be strongly assisted by human pilot.

KeyWords: Intelligent control, conventional control, flight control, landing, aerodynamic.