

AIRBORNE SEPARATION ASSISTANCE DURING LANDING - AN APPROACH FOR AUTOMATION

B. Padmashree; B. Subba Reddy
VTU Extension Centre - Honeywell
Honeywell Technology Solutions Lab Pvt Ltd
No. 151/1, Doraisanipalya, Bannerghatta Road
Bangalore-560 076, India
Email : Subbareddy.band@honeywell.com

Abstract

Self-spacing and Required-Time-of-Arrival (RTA) concepts are now being developed to support future Air Traffic Management (ATM) systems. Among many types of separation methods, distance based separation assumes importance from safety point of view. The present study is an attempt to analyze approach proposed by EUROCAE and extend the same for development of guidance laws in the form of acceleration commands instead of speed commands. Objective is to realize an effective implementation of the guidance laws in the Thrust Management Function of onboard Flight Management System. Simulation studies are presented involving actual flight responses for the lead aircraft during terminal phase.

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