

AIRCRAFT ARRIVAL MANAGEMENT SYSTEMS AND METHODS

ABSTRACT

Systems (302) and methods (610) for aircraft arrival management are disclosed.

5 The system (302) is configured to control a timing of landing between a leading aircraft (205, 207) and a trailing aircraft (207, 209) by calculating (614, 616) backward trajectories (406, 408) for each of the aircraft from a common touchdown point (102) on a runway (101). The system (302) is further configured to compute (620) a delta distance (L), based on a separation threshold distance (D), corresponding to a travel distance (L) for the
10 trailing aircraft (207, 209) along an arc (108) centered around a merge point (104), before turning towards a merge point (104).

Fig. 3