

عنوان مقاله:

(Capacity Planning Based on Scenario Tree and Passenger Motion Equation (IKIA and MIA

محل انتشار:

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خلاصه مقاله:

Demand for air travel has increased in quantity and quality, like preflight services and communications systems, necessitating more serious attention to air terminal capacity planning. Capacity planning, especially when uncertainty exists about future levels of passenger demand is also considered, becomes even more complex. The problem of random, multistage and nonlinear modeling must be adapted to include a multi-commodity network flow structure which shows the flow of passengers at terminals. In this paper a capacity planning approach is utilized based on the concepts of scenario tree and motion equations of passengers, and implemented for passenger terminals of the two major International Airports (IKIA & MIA) in Tehran, Iran. Results of mathematical programming model for these case studies indicate that increasing the capacity of the passenger terminal in IKIA can increase the productivity of the existing space and the whole airport which is also very economical. At MIA, it would be necessary to increase the effective width of corridors and to increase number of processing stations.

کلمات کلیدی:

airport passenger terminal, capacity planning, Multistage Stochastic Programming, Imam Khomeini International Airport, Mehrabad International Airport

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