ABSTRACT

In an increasingly competitive environment, airlines and airport managers are faced with the necessity of and forecasting air passenger demand for planning, routing and human resources. Air passenger demand modelling and forecasting provides a key input into decisions of daily operation management and infrastructure planning of airports and airway services. Given the limited number of studies on modelling and forecasting daily air passenger demand, the objective of this study is to build a proper model to forecast daily air passenger demand to Antalya International Airport by using ARIMA, which is also known as Box-Jenkins methodology. The number of daily international air passenger arrivals at Antalya International Airport cover the period 1 January 2008 – 28 February 2014, giving a total of 2,251 observations was used to build ARIMA models. As a conclusion of experimental results, the final model was identified as ARIMA (5,1,6) among the all applied models.

Keywords: Air Passenger Demand, ARIMA Modelling, Antalya.