

ABSTRACT

One of the public's options for public transportation is the airplane. The number of passengers on domestic flights at Soekarno Hatta airport frequently rises and falls in specific months, as well flight service can keep track of this information by forecasting, which aims to predict the number of passengers so that flight services are prepared to offer the best service. This study uses monthly data on the number of passengers on domestic flights at Soekarno Hatta airport from January 2019 to December 2023. The fuzzy time series markov chain method combines fuzzy time series with the markov chain, which seeks to obtain the greatest probability using the transition probability. Based on the analysis results, it can be concluded that the fuzzy time series markov chain method is good for forecasting because the value of sMAPE is 15,56%.

Keywords: Fuzzy Time Series Markov Chain, Forecasting, Number of Airplane Passangers, sMAPE