

Abstract

Tourism is the most undeniable topic that cannot be separated from Indonesia. There are lots of tourism board spreaded across the archipelago. Each has made their own name in the world. The number of tourist that visit Indonesia is important for Indonesia's devisa. Mass traffic of tourists visited Indonesia must be provided with up to date facilities and safety guaranty. Some of the souvenir seller said that on July and August, the traffic of tourists will be crowded, so they need to restock their listing, What the merchants do are actually trying to forecasting the tourism by using their experience on the past years.

Method that will be used in this research is using fuzzy time series. This method applied fuzzy logic concept into time series data and then modeling fuzzy logical relationship (FLR). The list of FLR and then will be used to model fuzzy logical relationship group (FLRG).

This research will discuss what is the impact of number of interval using in fuzzy time series toward the prediction results. This research also discuss about the performance on small scale data and large scale data. The accuration of this research is between 87% to 89% on large scale data and 95% to 99% to small scale data.

Key words : tourism, time series, fuzzy logic, fuzzy time series, fuzzy logical relationship