

ABSTRACT

Insurance companies need information to find out the amount of insurance claims that will be covered in the future. Predicting large claims can be an alternative to know that. Frequently used method for biased prediction using time series method. In this study discusses about modeling big data of insurance claim using Exponential Autoregressive Conditional Amount (EACA) model. The model used in this research is EACA (1,1) based on cut off value of ACF and PACF. Based on the result of this research, we get parameter estimation value in EACA model (1,1) using Maximum Likelihood Estimator (MLE) method. The error value of the predicted EACA model (1,1) is calculated using the Root Mean Square (RMSE) method. The RMSE value of the predicted data of insurance claims data is 1.453×10^6 with mean (average) value from observation data is 1.106×10^6 .

Kata Kunci: insurance, eksponensial distribution, EACA, forecast, MLE, RMSE.