

Network traffic time series performance analysis using statistical methods

ABSTRACT

This paper presents an approach for a network traffic characterization by using statistical techniques. These techniques are obtained using the decomposition, winter's exponential smoothing and autoregressive integrated moving average (ARIMA). In this paper, decomposition and winter's exponential smoothing techniques were used additive and multiplicative model. Then, ARIMA based-on Box-Jenkins methodology. The results of ARIMA (1,0,2) was shown the best model that can be used to the internet network traffic forecasting.