Abstract

The GSM logical channel load are stochastic (random), distinct in time (Erlang) distribution data; and as such it requires robust means of its prediction. The method employed in this work for the predictions is a hybrid of Simple Moving Average (SMA) and Exponential Smoothing (ExS), which can fit in to predict logical channel load variables with it peculiarities. A three (3) month Data were used in determining the number of observations for the prediction (n) for SMA and smoothing constant (\( \beta \)) for ExS. The determinant values obtained are \( n = 28 \), and \( \beta = 0.077 \). These values are used to predict the logical control and traffic channels load variables that characterizes its utilization.

Index Terms

Computer Science  Wireless

Keywords

GSM  SMA  ExS  and Logical channel.