Abstract

Forecasting In-Patient length of stay is a prime concern for patients in diagnosis of their diseases. It is also significant for hospitals to plan and manage their services for patients efficiently. Length of In-Patient stay prediction plays a crucial role in strategic decision making by healthcare administrators and also plan their resources. This paper presents a review of related algorithms and methods that are carried out by the researchers in past years. Most of the papers calculated outcomes in terms of MSE (mean square error) and AFER (average forecasting error rate) and had compared with different pre-existing methods. With the review of the literature identified that there is a still scope of some improvement required in healthcare domain using Genetic Algorithm approach.

References


**Index Terms**

Computer Science  
Information Sciences

**Keywords**

Fuzzy time series, soft computing, Linguistic data sets, Average length of stay (LOS), AFER and MSE.