Abstract

Control charts are widely used for process monitoring. Software reliability process can be monitored efficiently by using Statistical Process Control (SPC). It assists the software development team to identify failures and actions to be taken during software failure process and hence, assures better software reliability. In this paper we propose a control mechanism...
based on the cumulative quantity between observations of time domain failure data using mean value function of Weibull distribution, which is based on Non Homogenous Poisson Process (NHPP). The Maximum Likelihood Estimation (MLE) method is used to derive the point estimators of a two-parameter Weibull distribution.

**Reference**


**Index Terms**

Computer Science

Software Engineering

**Key words**

Statistical Process Control

Software reliability

Weibull Distribution

Mean Value function

Probability limits
Control Charts