Inverse Rayleigh Software Reliability Growth Model

Abstract

A Non Homogenous Poisson Process (NHPP) with its mean value function generated by the cumulative distribution function of inverse Rayleigh distribution is considered. It is modeled to assess the failure phenomenon of a developed software. When the failure data is in the form of number of failures in a given interval of time the model parameters are estimated by the maximum likelihood method. The performance of the model using four data sets is discussed in comparison with existing models.

References

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Keywords
IRD MLE MSE NHPP SRGM