Abstract

This study aims to compare the predictive capability of two popular software reliability growth models (SRGM), say exponential growth and inflection S-shaped growth models. We first review the exponentiated Weibull (EW) testing-effort functions and discuss exponential type and inflection S-shaped type SRGM with EW testing-effort. We then analyzed the actual data.
applications and compare the predictive capability of these two SRGM graphically. The findings reveal that inflection S-shaped type SRGM has better prediction capability as compare to exponential type SRGM.

Reference

Vol. R-42, pp.100 105.

Index Terms

Computer Science
Software Engineering

Key words

Testing-Effort Function
Exponentiated Weibull Distribution
Software Reliability Growth
Mean value

Models
function
non-homogeneous Poisson process

Estimation methods