Abstract

In present era people depend on both hardware and software system. As software system is engrained in every aspect of computer system, the desired quality of software is an essential concern for many critical system. From last few decades, many software reliability growth models were developed to analyze the growth of reliability. For improving the quality of software, SRGM plays an essential role. The present study proposed a Software Reliability Growth Model with testing effort and dynamic fault. The parameters involved in the proposed model are estimated using least square estimation. The performance of the proposed model is validated using Mean Square Error (MSE), Akaike Information Criterion (AIC) and R Squared Error (R2). A proposed Model is compared with existing models reported in literature, and it has been observed that proposed model performed better.

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