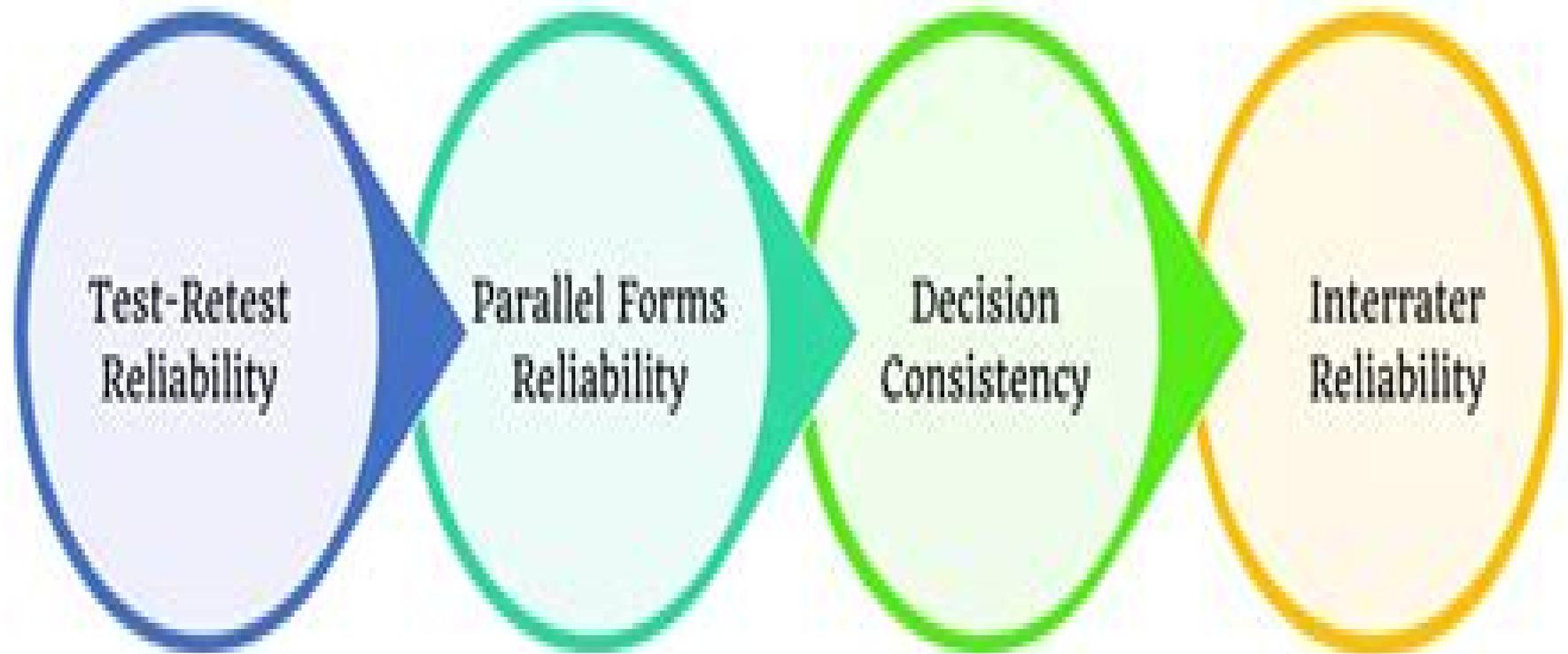


APPROACHES IN RELIABILITY TESTING



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Software Reliability and Testing Hoang Pham, 1995-07-14 This tutorial presents 14 papers that provide an overview of software reliability models testing techniques and applications The book is targeted toward design engineers software engineers researchers computer scientists technical managers and students wishing to conduct research or update themselves in the field of software reliability and testing The papers on software reliability describe applications of software reliability growth modeling to software systems investigate the relationship between program complexity measures and program errors and explore the difficulty in accurately modeling software reliability The remaining papers present new models that are useful in estimating the reliability of software systems and deal with the cost reliability optimal software release policies in software systems The papers on software testing investigate the relationship between reliability and testing discuss safety arguments and the role of software and system reliability and describe the use of an operational profile in testing a large scale industrial software system for estimating software The remaining papers present new models useful in testing software systems

Software Reliability Modelling Min Xie, 1991-10-16 This book summarizes the recent advances in software reliability modelling Almost all the existing models are classified and the most interesting models are described in detail Because of the application of software in many industrial military and commercial systems software reliability has become an important research area Although there are many models and results appeared in different journals and conference proceedings there is a lack of systematic publications on this subject The aim of this book is to provide an overview of this area and provide software reliability researchers and analysts with a systematic study of the existing results This book can also be used as a reference book for other software engineers and reliability theoreticians interested in this area

Software Reliability Engineering John D. Musa, 2004 Software Reliability Engineering is the classic guide to this time saving practice for the software professional ACM Software Engineering Notes praised it as an introductory book a reference and an application book all compressed in a single volume The author s experience in reliability engineering is apparent and his expertise is infused in the text IEEE Computer noted Toward software you can depend on This book illustrates the entire SRE process An aid to systems engineers systems architects developers and managers This Second Edition is thoroughly rewritten for the latest SRE practice enlarged 50% and polished by thousands of practitioners Added workshops help you apply what you learn to your project Frequently asked questions were doubled to more than 700 The step by step process summary software user manual list of articles of SRE user experience glossary background sections and

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Software Reliability Assessment with OR Applications P.K. Kapur, Hoang Pham, A. Gupta, P.C. Jha, 2013-05-09 Software Reliability Assessment with OR Applications is a comprehensive guide to software reliability measurement prediction and control It provides a thorough understanding of the field and gives solutions to the decision making problems that concern software developers engineers practitioners scientists and researchers Using operations research techniques readers will learn how to solve problems under constraints such as cost budget and schedules to achieve the highest possible quality level Software Reliability Assessment with OR Applications is a comprehensive text on software engineering and applied statistics state of the art software reliability modeling techniques and methods for reliability assessment and related optimization problems It addresses various topics including unification methodologies in software reliability assessment application of neural networks to software reliability assessment software reliability growth modeling using stochastic differential equations software release time and resource allocation problems and optimum component selection and reliability analysis for fault tolerant systems Software Reliability Assessment with OR Applications is designed to cater to the needs of software engineering practitioners developers security or risk managers and statisticians It can also be used as a textbook for advanced undergraduate or postgraduate courses in software reliability industrial engineering and operations research and management

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Software Reliability, Measurement, and Testing Software Reliability and Test Integration, 1992 This effort integrated software reliability measurement and test techniques in terms of prediction estimation and assessment Experiments were conducted to compare six testing techniques and to measure the effect of software product and process variables on software reliability A guidebook was produced to help program managers control and manage software reliability and testing Error anomaly and code reviews were the test techniques found to be the most effective at the unit level branch testing and code reviews were the most effective at the CSC level Software Reliability Software Measurement Software Testing

Software Reliability John D. Musa, Anthony Iannino, Kazuhira Okumoto, 1987

Software Engineering Nasib Singh Gill, 2007

Software Reliability Thomas A. Thayer, Myron Lipow, Eldred Carlyle Nelson, 1978

The objectives of this work are determine what software structural and development characteristics are available for analysis

and which of these characteristics are relevant to the description or prediction of software reliability define improved methods for collecting reliability data based on error histories seen in the data define sets of error categories both causative and symptomatic to be applied in the analysis of software problem reports and their closures recommended changes in 1 development techniques to enhance the error freeness reliability of the coded product and 2 test techniques to make it possible to find more errors earlier perform a survey of existing software reliability models extend Nelson's Mathematical Theory of Software Reliability MTSR and apply it to data collected on an ongoing software development project

Handbook of Software Reliability Engineering Michael R. Lyu, 1996 From leading industrial research experts here is an insider's look at today's best practices for software reliability engineering Using this guide software developers designers and project managers high level applications programmers and designers and students will be able to tap into an unparalleled repository of accumulated experience and expertise

Software Reliability Engineering, 1998 Highly selected from submissions and rigorously reviewed 44 papers cover models and trends in digital product evolution whether software could and should be more reliable than the world in which it is used predicting and estimating reliability improving process maintaining software reliability and testing modelling and validating reliability test planning and automation simulation special test methods improving process diagnosing faults analyzing and optimizing reliability evolutionary software code defect classification and metrics and safety critical software and fault injection In addition materials from panel discussions cover the next generation of dependability standards achieving adequate levels of reliability in practice and assessing reliability in emerging techniques No subject index Annotation copyrighted by Book News Inc Portland OR

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