

Software Reliability



Software Reliability

Michael G. Walker



Software Reliability:

Software Reliability Hoang Pham,2000-02-01 Providing a general introduction to software reliability engineering this book presents detailed analytical models state of the art techniques methodologies and tools used to assess the reliability of software systems It also explores new directions of research in the field of software reliability engineering including fault tolerant software and a new software reliability model that includes environmental factors 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** Glenford J. Myers,1976-10-06 Deals constructively with recognized software problems Focuses on the unreliability of computer programs and offers state of the art solutions Covers software development software testing structured programming composite design language design proofs of program correctness and mathematical reliability models Written in an informal style for anyone whose work is affected by the unreliability of software Examples illustrate key ideas over 180 references **Ensuring Software Reliability** Ann Marie Neufelder,2018-10-08 Explains how software reliability can be applied to software programs of all sizes functions and languages and businesses This text provides real life examples from industries such as defence engineering and finance It is aimed at software and quality assurance engineers and graduate students *Early Software Reliability Prediction* Ajeet Kumar Pandey,Neeraj Kumar Goyal,2013-07-12 The development of software system with acceptable level of reliability and quality within available time frame and budget becomes a challenging objective This objective could be achieved to some extent through early prediction of number of faults present in the software which reduces the cost of development as it provides an opportunity to make early corrections during development process The book presents an early software reliability prediction model that will help to grow the reliability of the software systems by monitoring it in each development phase i e from requirement phase to testing phase Different approaches are discussed in this book to tackle this challenging issue An important approach presented in this book is a model to classify the modules into two categories a fault prone and b not fault prone The methods presented in this book for assessing expected number of faults present in the software assessing expected number of faults present at the end of each phase and classification of software modules in fault prone or no fault prone category are easy to understand develop and use for any practitioner The practitioners are expected to gain more information about their development process and product reliability which can help

to optimize the resources used

Metrics and Models in Software Quality Engineering Stephen H. Kan, 2003 This is the single best book on software quality engineering and metrics that I've encountered Capers Jones from the ForewordMetrics and Models in Software Quality Engineering Second Edition is the definitive book on this essential topic of software development Comprehensive in scope with extensive industry examples it shows how to measure software quality and use measurements to improve the software development process Four major categories of quality metrics and models are addressed quality management software reliability and projection complexity and customer view In addition the book discusses the fundamentals of measurement theory specific quality metrics and tools and methods for applying metrics to the software development process New chapters bring coverage of critical topics including In process metrics for software testingMetrics for object oriented software developmentAvailability metricsMethods for conducting in process quality assessments and software project assessmentsDos and Don'ts of Software Process Improvement by Patrick O TooleUsing Function Point Metrics to Measure Software Process Improvement by Capers Jones In addition to the excellent balance of theory techniques and examples this book is highly instructive and practical covering one of the most important topics in software development quality engineering 0201729156B08282002

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

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

Software Defect and Operational Profile Modeling Kai-Yuan Cai, 2012-12-06 also in THE KLUWER INTERNATIONAL SERIES ON ASIAN STUDIES IN COMPUTER AND INFORMATION SCIENCE Volume 1

Software Fault Detection and Correction: Modeling and Applications Rui Peng, Yan-Fu Li, Yu Liu, 2018-11-01 This book focuses on software fault detection and correction processes presenting 5 different paired models introduced over the last decade and discussing their applications in particular to determining software release time The first work incorporates the testing effort function and the fault introduction process into the paired fault detection and fault correction models The second work incorporates fault dependency while the third adopts a Markov approach for studying fault detection and correction processes The fourth work considers the multi release property of various software and models fault detection and correction processes The last work classifies faults into four types and models the fault detection and correction processes Enabling readers to familiarize themselves with how software

reliability can be modeled when different factors need to be considered and how the approaches can be used to analyze other systems the book is important reference guide for researchers in the field of software reliability engineering and practitioners working on software projects To gain the most from the book readers should have a firm grasp of the fundamentals of the stochastic process *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 exercises are all updated enhanced and exhaustively indexed To see the Table of Contents and other details click on <http://members.aol.com/JohnDMusa/book.htm>

Optimization of Automated Software Testing Using Meta-Heuristic Techniques Manju Khari, Deepti Bala Mishra, Biswaranjan Acharya, Ruben Gonzalez Crespo,2022-09-26 This book provides awareness of different evolutionary methods used for automatic generation and optimization of test data in the field of software testing While the book highlights on the foundations of software testing techniques it also focuses on contemporary topics for research and development This book covers the automated process of testing in different levels like unit level integration level performance level evaluation of testing strategies testing in security level optimizing test cases using various algorithms and controlling and monitoring the testing process etc This book aids young researchers in the field of optimization of automated software testing provides academics with knowledge on the emerging field of AI in software development and supports universities research centers and industries in new projects using AI in software testing Supports the advancement in the artificial intelligence used in software development Advances knowledge on artificial intelligence based metaheuristic approach in software testing Encourages innovation in traditional software testing field using recent artificial intelligence

System Software Reliability Hoang Pham,2007-04-21 Computer software reliability has never been so important Computers are used in areas as diverse as air traffic control nuclear reactors real time military industrial process control security system control biometric scan systems automotive mechanical and safety control and hospital patient monitoring systems Many of these applications require critical functionality as software applications increase in size and complexity This book is an introduction to software reliability engineering and a survey of the state of the art techniques methodologies and tools used to assess the reliability of software and combined software hardware systems Current research results are reported and future directions are signposted This text will interest graduate

students as a course textbook introducing reliability engineering software reliability engineers as a broad up to date survey of the field and researchers and lecturers in universities and research institutions as a one volume reference **Reliability of Software Intensive Systems** Michael A. Friedman,Phuong Y. Tran,Peter I. Goddard,1995-01-01 Reliability of Software Intensive Systems *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 **Tutorial on Hardware and Software Reliability, Maintainability and Availability** Norman F. Schneidewind,2008-10-21 Computer systems whether hardware or software are subject to failure Precisely what is a failure It is defined as The inability of a system or system component to perform a required function within specified limits A failure may be produced when a fault is encountered and a loss of the expected service to the user results IEEE AIAA P1633 This brings us to the question of what is a fault A fault is defect in the hardware or computer code that can be the cause of one or more failures Software based systems have become the dominant player in the computer systems world Since it is imperative that computer systems operate reliably considering the criticality of software particularly in safety critical systems the IEEE and AIAA commissioned the development of the Recommended Practice on Software Reliability This tutorial serves as a companion document with the purpose of elaborating on key software reliability process practices in more detail than can be specified in the Recommended Practice However since other subjects like maintainability and availability are also covered the tutorial can be used as a stand alone document While the focus of the Recommended Practice is software reliability software and hardware do not operate in a vacuum Therefore both software and hardware are addressed in this tutorial in an integrated fashion The narrative of the tutorial is augmented with illustrative solved problems The recommended practice IEEE P1633 is a composite of models and tools and describes the what and how of software reliability engineering It is important for an organization to have a disciplined process if it is to produce high reliability software This process uses a life cycle approach to software reliability that takes into account the risk to reliability due to requirements changes A requirements change may induce ambiguity and uncertainty in the development process that cause errors in implementing the changes Subsequently these errors may propagate through later phases of development and maintenance In view of the life cycle ramifications of the software reliability process maintenance is included in this tutorial Furthermore because reliability and maintainability determine availability the latter is also included

Making Statistical Inferences about Software Reliability Douglas Rathke Miller,1988 **Computer System Reliability** B.S. Dhillon,2013-05-14 Computer systems have become an important element of the world economy with billions of dollars spent each year on development manufacture operation and maintenance Combining coverage of computer system reliability safety usability and other related topics into a single volume Computer System Reliability Safety and Usability

eliminates the need to consult many different and diverse sources in the hunt for the information required to design better computer systems After presenting introductory aspects of computer system reliability such as safety usability related facts and figures terms and definitions and sources for obtaining useful information on computer system reliability safety and usability the book Reviews mathematical concepts considered useful to understanding subsequent chapters Presents various introductory aspects of reliability safety and usability and computer system reliability basics Covers software reliability assessment and improvement methods Discusses important aspects of software quality and human error and software bugs in computer systems Highlights software safety and Internet reliability Details important aspects of software usability including the need for considering usability during the software development phase software usability engineering process software usability inspection methods software usability test methods and guidelines for conducting software usability testing Elucidates web usability facts and figures common design errors web page design tools for evaluating web usability and questions to evaluate website message communication effectiveness Examines important aspects of computer system life cycle costing Written by systems reliability expert B S Dhillon the book is accessible to all levels of readership making it useful to beginners and seasoned professionals alike Reflecting practical trends in computer engineering especially in the area of software Dhillon emphasizes the importance of usability in software systems and expands reliability to web usability and management It provides methods for designing systems with increased reliability safety and usability

Managing Software Reliability Michael G. Walker,1981 **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

Reviewing **Software Reliability**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Software Reliability**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Software Reliability Introduction

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