# Software reliability methods: issues

- Level of guarantee provided by the method
  - Hard guarantees, statistical guarantees, no formal guarantee
  - What if tool is broken: trusted computing base
- When is the method used?
  - compile-time, link-time, load-time, run-time
- What does the tool see?
  - source code, assembly, the whole program or part of the program

# **Software Reliability Methods**

Manju Khari, Deepti Bala Mishra, Biswaranjan Acharya, Ruben Gonzalez Crespo

#### **Software Reliability Methods:**

Software Reliability Methods Doron A. Peled, 2001-06-26 This book presents current methods for dealing with software reliability illustrating the advantages and disadvantages of each method The description of the techniques is intended for a non expert audience with some minimal technical background It also describes some advanced techniques aimed at researchers and practitioners in software engineering This reference will serve as an introduction to formal methods and techniques and will be a source for learning about various ways to enhance software reliability Various projects and exercises give readers hands on experience with the various formal methods and tools 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 Multi-Criteria Decision Models in Software Reliability Ashish Mishra, Nguyen Thi Dieu Linh, Manish Bhardwaj, Carla M. A. Pinto, 2022-11-30 This book provides insights into contemporary issues and challenges in multi criteria decision models It is a useful guide for identifying understanding and categorising multi criteria decision models and ultimately implementing the analysis for effective decision making The use of multi criteria decision models in software reliability engineering is a relatively new field of study and this book collects all the latest methodologies tools and techniques in one single volume It covers model selection assessment resource allocation release management up grade planning open source systems bug tracking system management and defect prediction Multi Criteria Decision Models in Software Reliability Methods and Applications will cater to researchers academicians post graduate students software developers software reliability engineers and IT managers **Statistical** Methods in Software Engineering Nozer D. Singpurwalla, Simon P. Wilson, 2012-12-06 This preface pertains to three issues that we would like to bring to the attention of the readers our objectives our intended audience and the nature of the

material We have in mind several objectives The first is to establish a framework for dealing with uncertainties in software engineering and for using quantitative measures for decision making in this context. The second is to bring into perspective the large body of work having statistical content that is relevant to software engineering which may not have appeared in the traditional outlets devoted to it Connected with this second objective is a desire to streamline and organize our own thinking and work in this area Our third objective is to provide a platform that facilitates an interface between computer scientists and statisticians to address a class of problems in computer science It appears that such an interface is necessary to provide the needed synergism for solving some difficult problems that the subject poses Our final objective is to serve as an agent for stimulating more cross disciplinary research in computer science and statistics To what extent the material here will meet our objectives can only be assessed with the passage of time Our intended audience is computer scientists software engineers and reliability analysts who have some exposure to probability and statistics Applied statisticians interested in reliability problems are also a segment of our intended audience **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 Software System Design Methods Josef K. Skwirzynski, 2012-12-06 In this volume we present the full proceedings of a NATO Advanced Study Institute ASI on the theme of the challenge of advanced computing technology to system design methods This is in fact the second ASI organised by myself and my colleagues in the field of systems reliability the first was about Electronic Systems Effectiveness and Life Cycle Costing and the proceed ings were published by the same publisher in 1983 as Series F Computer and System Sciences No 3 The first part of the present proceedings concentrates on the development of low fault and fault tolerant software In organising this session I was greatly helped by Mr John Musa and Professor V R Basili The latter and Or R W Selby open our text with their interesting approach to the problem of data collection and of observation sampling for statistical analysis of software development software testing strategies and error analysis The problem of clean room software development is also considered Next Professor B Randell discusses recursively structured fault tolerant distributed computer systems and bases his approach on a UNIX system example His aim is to establish that a distributed system should be functionally equivalent to an individual computing system Or L F Pau considers knowledge engineering techniques applied to fault detection test generation and maintenance of software This is illustrated by a variety of examples such as electronic failure detection control system testing analysis of intermittent failures false alarm reduction and others Following this Mr M

<u>Simple Statistical Methods for Software Engineering</u> C. Ravindranath Pandian, Murali Kumar, 2015-05-21 Although there are countless books on statistics few are dedicated to the application of statistical methods to software engineering Simple

Statistical Methods for Software Engineering Data and Patterns fills that void Instead of delving into overly complex statistics the book details simpler solutions that are just as effective and connect wi **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 *Analytic Methods in Systems and Software Testing* Ron S. Kenett, Fabrizio Ruggeri, Frederick W. Faltin, 2018-07-06 A comprehensive treatment of systems and software testing using state of the art methods and tools This book provides valuable insights into state of the art software testing methods and explains with examples the statistical and analytic methods used in this field Numerous examples are used to provide understanding in applying these methods to real world problems Leading authorities in applied statistics computer science and software engineering present state of the art methods addressing challenges faced by practitioners and researchers involved in system and software testing Methods include machine learning Bayesian methods graphical models experimental design generalized regression and reliability modeling Analytic Methods in Systems and Software Testing presents its comprehensive collection of methods in four parts Part I Testing Concepts and Methods Part II Statistical Models Part III Testing Infrastructures and Part IV Testing Applications It seeks to maintain a focus on analytic methods while at the same time offering a contextual landscape of modern engineering in order to introduce related statistical and probabilistic models used in this domain This makes the book an incredibly useful tool offering interesting insights on challenges in the field for researchers and practitioners alike Compiles cutting edge methods and examples of analytical approaches to systems and software testing from leading authorities in applied statistics computer science and software engineering Combines methods and examples focused on the analytic aspects of systems and software testing Covers logistic regression machine learning Bayesian methods graphical models experimental design generalized regression and reliability models Written by leading researchers and practitioners in the field from diverse backgrounds including research business government and consulting Stimulates research at the theoretical and practical level Analytic Methods in Systems and Software Testing is an excellent

advanced reference directed toward industrial and academic readers whose work in systems and software development approaches or surpasses existing frontiers of testing and validation procedures It will also be valuable to post graduate students in computer science and mathematics

Biologically Inspired Techniques in Many-Criteria Decision Making
Satchidananda Dehuri, Bhabani Shankar Prasad Mishra, Pradeep Kumar Mallick, Sung-Bae Cho, Margarita N.
Favorskaya, 2020-01-21 This book addresses many criteria decision making MCDM a process used to find a solution in an environment with several criteria In many real world problems there are several different objectives that need to be taken into account Solving these problems is a challenging task and requires careful consideration In real applications often simple and easy to understand methods are used as a result the solutions accepted by decision makers are not always optimal solutions On the other hand algorithms that would provide better outcomes are very time consuming The greatest challenge facing researchers is how to create effective algorithms that will yield optimal solutions with low time complexity Accordingly many current research efforts are focused on the implementation of biologically inspired algorithms BIAs which are well suited to solving uni objective problems This book introduces readers to state of the art developments in biologically inspired techniques and their applications with a major emphasis on the MCDM process To do so it presents a wide range of contributions on e g BIAs MCDM nature inspired algorithms multi criteria optimization machine learning and soft computing

Quality of Software Architectures and Software Quality Ralf H. Reussner, Johannes Mayer, Judith A. Stafford, Sven Overhage, Steffen Becker, Patrick J. Schroeder, 2005-09-09 This book constitutes the joint refereed proceedings of two colocated events the First International Conference on the Quality of Software Architectures QoSA 2005 and the Second International Workshop on Software Quality SOQUA 2005 held in Erfurt Germany in September 2005 The 18 revised full papers presented were carefully reviewed and selected from 48 submissions For QoSA 2005 only 12 papers of the 31 submitted were accepted for presentation they are concerned with research and experiences that investigate the influence a specific software architecture has on software quality aspects The papers are organized in topical sections on software architecture evaluation formal approaches to model driven QoS handling modelling QoS in software architectures software architectures applied architectural design for QoS and model driven software reliability estimation The 6 papers accepted for SOQUA 2005 from 17 submissions mainly focus on quality assurance and on software testing They are organized in topical sections on test case selection model based testing unit testing and performance testing Software Engineering Methods <u>Design and Application</u> Radek Silhavy, Petr Silhavy, 2024-10-22 This book dives into contemporary research methodologies emphasising the innovative use of machine learning and statistical techniques in software engineering Exploring software engineering and its integration into system engineering is pivotal in advancing computer science research. It features the carefully reviewed proceedings of the Software Engineering Research in System Science session of the 13th Computer Science Online Conference 2024 CSOC 2024 held virtually in April 2024 Handbook of Software Engineering Sungdeok

Cha, Richard N. Taylor, Kyochul Kang, 2019-02-11 This handbook provides a unique and in depth survey of the current state of the art in software engineering covering its major topics the conceptual genealogy of each subfield and discussing future research directions Subjects include foundational areas of software engineering e g software processes requirements engineering software architecture software testing formal methods software maintenance as well as emerging areas e g self adaptive systems software engineering in the cloud coordination technology Each chapter includes an introduction to central concepts and principles a guided tour of seminal papers and key contributions and promising future research directions The authors of the individual chapters are all acknowledged experts in their field and include many who have pioneered the techniques and technologies discussed Readers will find an authoritative and concise review of each subject and will also learn how software engineering technologies have evolved and are likely to develop in the years to come This book will be especially useful for researchers who are new to software engineering and for practitioners seeking to enhance their skills and knowledge Software Engineering and Knowledge Engineering: Theory and Practice Wei Zhang, 2012-06-30 2012 International Conference on Software Engineering Knowledge Engineering and Information Engineering SEKEIE 2012 will be held in Macau April 1 2 2012 This conference will bring researchers and experts from the three areas of Software Engineering Knowledge Engineering and Information Engineering together to share their latest research results and ideas This volume book covered significant recent developments in the Software Engineering Knowledge Engineering and Information Engineering field both theoretical and applied We are glad this conference attracts your attentions and thank your support to our conference We will absorb remarkable suggestion and make our conference more successful and perfect

**Multimedia Technology and Enhanced Learning** Bing Wang, Zuojin Hu, Xianwei Jiang, Yu-Dong Zhang, 2024-02-20 The four volume set LNICST 532 533 534 and 535 constitutes the refereed proceedings of the 5th EAI International Conference on Multimedia Technology and Enhanced Learning ICMTEL 2023 held in Leicester UK during April 28 29 2023 The 121 papers presented in the proceedings set were carefully reviewed and selected from 285 submissions They were organized in topical sections as follows AI based education and learning systems medical and healthcare computer vision and image processing data mining and machine learning workshop 1 AI based data processing intelligent control and their applications workshop 2 intelligent application in education and workshop 3 the control and data fusion for intelligent systems

Evolutionary Computation and Optimization Algorithms in Software Engineering: Applications and Techniques Chis, Monica, 2010-06-30 Evolutionary Computation and Optimization Algorithms in Software Engineering Applications and Techniques lays the foundation for the successful integration of evolutionary computation into software engineering It surveys techniques ranging from genetic algorithms to swarm optimization theory to ant colony optimization demonstrating their uses and capabilities These techniques are applied to aspects of software engineering such as software testing quality assessment reliability assessment and fault prediction models among others to providing researchers scholars

and students with the knowledge needed to expand this burgeoning application Modern Software Engineering Concepts and Practices: Advanced Approaches Dogru, Ali H., Biçer, Veli, 2010-12-31 Software engineering has advanced rapidly in recent years in parallel with the complexity and scale of software systems New requirements in software systems yield innovative approaches that are developed either through introducing new paradigms or extending the capabilities of well established approaches Modern Software Engineering Concepts and Practices Advanced Approaches provides emerging theoretical approaches and their practices This book includes case studies and real world practices and presents a range of advanced approaches to reflect various perspectives in the discipline **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 Reliability A. Bendell, P. Mellor, 2014-05-17 Software Reliability reviews some fundamental issues of software reliability as well as the techniques models and metrics used to predict the reliability of software Topics covered include fault avoidance fault removal and fault tolerance along with statistical methods for the objective assessment of predictive accuracy Development cost models and life cycle cost models are also discussed This book is divided into eight sections and begins with a chapter on adaptive modeling used to predict software reliability followed by a discussion on failure rate in software reliability growth models The next chapter deals with methods for predicting and estimating software reliability with emphasis on their strengths and weaknesses. The reader is methodically introduced to formal inspection in software development the effects of product design program structure development methods and the environments of product testing and use on product reliability and types of software metrics in relation to reliability The remaining chapters explore the ways in which software engineers have sought to achieve software reliability through testing problems and standards in software reliability data collection and applications of time series models to software reliability analysis This monograph will be of interest to software engineers and designers Frontiers in Software Engineering Giancarlo Succi, Paolo Ciancarini, Artem Kruglov, 2022-01-06 This volume constitutes selected papers presented at the First International Conference on Frontiers in Software Engineering ICFSE 2021 hekd in Innopolis Russia in June 2021 The 13 presented full papers were thoroughly reviewed and selected from 37 submissions. The papers present discussion on such topics as software engineering tools and environments empirical software engineering model driven and domain specific engineering human factors and social aspects of software engineering cooperative distributed and global software engineering component based software engineering software metrics and software engineering for green and sustainable technologies

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