

Springer Series in Reliability Engineering

P. K. Kapur · H. Pham · A. Gupta · P. C. Jha

Software Reliability Assessment with OR Applications

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Software Reliability Assessment With Or Applications Springer Series In Reliability Engineering

Hoang Pham



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Software Reliability Assessment with OR Applications P.K. Kapur, Hoang Pham, A. Gupta, P.C. Jha, 2013-05-12

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.

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.

Safety and Risk Modeling and Its Applications Hoang Pham, 2011-09-08 Safety and Risk Modeling presents the latest theories and methods of safety and risk with an emphasis on safety and risk in modeling. It covers applications in several areas including transportations and security risk assessments as well as applications related to current topics in safety and risk. Safety and Risk Modeling is a valuable resource for understanding the latest developments in both qualitative and quantitative methods of safety and risk analysis and their applications in operating environments. Each chapter has been written by active researchers or experienced practitioners to bridge the gap between theory and practice and to trigger new research challenges in safety and risk. Topics include safety engineering, system maintenance, safety in design, failure analysis, and risk concept and

modelling Postgraduate students researchers and practitioners in many fields of engineering operations research management and statistics will find *Safety and Risk Modeling* a state of the art survey of reliability and quality in design and practice *Quality and Reliability Management and Its Applications* Hoang Pham,2015-11-20 Integrating development processes policies and reliability predictions from the beginning of the product development lifecycle to ensure high levels of product performance and safety this book helps companies overcome the challenges posed by increasingly complex systems in today s competitive marketplace Examining both research on and practical aspects of product quality and reliability management with an emphasis on applications the book features contributions written by active researchers and or experienced practitioners in the field so as to effectively bridge the gap between theory and practice and address new research challenges in reliability and quality management in practice Postgraduates researchers and practitioners in the areas of reliability engineering and management amongst others will find the book to offer a state of the art survey of quality and reliability management and practices *Software Reliability Modeling* Shigeru Yamada,2013-10-24 Software reliability is one of the most important characteristics of software product quality Its measurement and management technologies during the software product life cycle are essential to produce and maintain quality reliable software systems Part 1 of this book introduces several aspects of software reliability modeling and its applications Hazard rate and nonhomogeneous Poisson process NHPP models are investigated particularly for quantitative software reliability assessment Further imperfect debugging and software availability models are discussed with reference to incorporating practical factors of dynamic software behavior Three software management problems are presented as application technologies of software reliability models the optimal software release problem the statistical testing progress control and the optimal testing effort allocation problem Part 2 of the book describes several recent developments in software reliability modeling and their applications as quantitative techniques for software quality reliability measurement and assessment The discussion includes a quality engineering analysis of human factors affecting software reliability during the design review phase which is the upper stream of software development as well as software reliability growth models based on stochastic differential equations and discrete calculus during the testing phase which is the lower stream The final part of the book provides an illustration of quality oriented software management analysis by applying the multivariate analysis method and the existing software reliability growth models to actual process monitoring data *Systems Performance Modeling* Adarsh Anand,Mangey Ram,2020-11-23 This book describes methods to improve software performance and safety using advanced mathematical and computational analytics The main focus is laid on the increase of software reliability by preventive and predictive maintenance with efficient usage of modern testing resources The editors collect contributions from international researchers in the field

Optimization Models in Software Reliability Anu G. Aggarwal,Abhishek Tandon,Hoang Pham,2021-09-29 The book begins with an introduction to software reliability models and techniques The book is an informative book covering the strategies

needed to assess software failure behaviour and its quality as well as the application of optimization tools for major managerial decisions related to the software development process. It features a broad range of topics including software reliability assessment and apportionment, optimal allocation and selection decisions and upgradations problems. It moves through a variety of problems related to the evolving field of optimization of software reliability engineering including software release time, resource allocating, budget planning and warranty models which are each explored in depth in dedicated chapters. This book provides a comprehensive insight into present day practices in software reliability engineering making it relevant to students, researchers, academics and practising consultants and engineers. **OSS Reliability**

Measurement and Assessment Shigeru Yamada, Yoshinobu Tamura, 2016-03-22. This book analyses quantitative open source software OSS reliability assessment and its applications focusing on three major topic areas: the Fundamentals of OSS Quality Reliability Measurement and Assessment, the Practical Applications of OSS Reliability Modelling and Recent Developments in OSS Reliability Modelling. Offering an ideal reference guide for graduate students and researchers in reliability for open source software OSS and modelling, the book introduces several methods of reliability assessment for OSS including component oriented reliability analysis based on analytic hierarchy process AHP, analytic network process ANP and non homogeneous Poisson process NHPP models, the stochastic differential equation models and hazard rate models. These measurement and management technologies are essential to producing and maintaining quality reliable systems using OSS.

Applied OSS Reliability Assessment Modeling, AI and Tools Yoshinobu Tamura, 2024-11-21. This textbook introduces the theory and application of open source software OSS reliability. The measurement and management of open source software are essential to produce and maintain quality and reliable systems while using open source software. This book describes the latest methods for the reliability assessment of open source software. It presents the state of the art of open source software reliability measurement and assessment based on stochastic modeling and deep learning approaches. It introduces several stochastic reliability analyses of OSS computing with application along with actual OSS project data. The book contains exercises to aid learning and is useful for graduate students and researchers. [Recent Advances in Reliability and Quality in Design](#)

Hoang Pham, 2008-05-20. This book presents the latest theories and methods of reliability and quality with emphasis on reliability and quality in design and modelling. Each chapter is written by active researchers and professionals with international reputations providing material which bridges the gap between theory and practice to trigger new practices and research challenges. The book therefore provides a state of the art survey of reliability and quality in design and practices. [Handbook of Reliability Engineering](#) Hoang Pham, 2014-03-12. An effective reliability programme is an essential component of every product's design, testing and efficient production. From the failure analysis of a microelectronic device to software fault tolerance and from the accelerated life testing of mechanical components to hardware verification, a common underlying philosophy of reliability applies. Defining both fundamental and applied work across the entire systems reliability

arena this state of the art reference presents methodologies for quality maintainability and dependability Featuring Contributions from 60 leading reliability experts in academia and industry giving comprehensive and authoritative coverage A distinguished international Editorial Board ensuring clarity and precision throughout Extensive references to the theoretical foundations recent research and future directions described in each chapter Comprehensive subject index providing maximum utility to the reader Applications and examples across all branches of engineering including IT power automotive and aerospace sectors The handbook s cross disciplinary scope will ensure that it serves as an indispensable tool for researchers in industrial electrical electronics computer civil mechanical and systems engineering It will also aid professional engineers to find creative reliability solutions and management to evaluate systems reliability and to improve processes For student research projects it will be the ideal starting point whether addressing basic questions in communications and electronics or learning advanced applications in micro electro mechanical systems MEMS manufacturing and high assurance engineering systems

The Safety of Controllers, Sensors, and Actuators Juan Pimentel, 2019-03-07 Safety has been ranked as the number one concern for the acceptance and adoption of automated vehicles since safety has driven some of the most complex requirements in the development of self driving vehicles Recent fatal accidents involving self driving vehicles have uncovered issues in the way some automated vehicle companies approach the design testing verification and validation of their products Traditionally automotive safety follows functional safety concepts as detailed in the standard ISO 26262 However automated driving safety goes beyond this standard and includes other safety concepts such as safety of the intended functionality SOTIF and multi agent safety The Safety of Controllers Sensors and Actuators addresses the concept of safety for self driving vehicles through the inclusion of 10 recent and highly relevant SAE technical papers Topics that these papers feature include risk reduction techniques in semiconductor based systems component certification and safety assessment and audits for vehicle components As the fifth title in a series on automated vehicle safety this contains introductory content by the Editor with 10 SAE technical papers specifically chosen to illuminate the specific safety topic of that book

Software Vulnerability Discovery Process: Concepts and Applications Adarsh Anand, Navneet Bhatt, Omar H Alhazmi, 2025-02-07 This book is an overview of basics and other related fundamentals pertaining to software vulnerability discovery as a process This collaboration of academia and industry disseminates various practical mathematical modeling based tools and analytics used for vulnerability discovery A big challenge for software developers is producing and maintaining high quality offerings Recent developments in both academia and industry have seen the devotion of many researchers to the security aspect of software systems There are various instances where a security breach or more precisely a software vulnerability has led to the colossal loss of resources and at times human lives as well The emergence of this na ve concept from the field of complex systems provides many new opportunities for the software security fraternity and has also raised many new exciting challenges And so of late many

practitioners have contributed to this domain Software Vulnerability Discovery Process Concepts and Applications is not only for academicians but also for those who need to understand nature of the vulnerabilities like a vendor a client in the domain of complex systems and for understanding the patch management workflow Along with these anyone solving problems within the related application domains will benefit from this compilation

26th Annual International Computer Software and Applications Conference IEEE Computer Society,2002 Collects the 172 papers presented during the August 2002 conference with the theme of Prolonging software life development and redevelopment The main subjects of the 38 sessions are component based software development software process quality control testing software evolution web based sy

Road and Off-Road Vehicle System Dynamics Handbook Gianpiero Mastinu,Manfred Ploechl,2014-01-06 Featuring contributions from industry leaders in their respective fields this volume presents comprehensive authoritative coverage of all the major issues involved in road vehicle dynamic behavior It begins with a short history of road and off road vehicle dynamics followed by thorough detailed state of the art chapters on modeling analysis and optimization in vehicle system dynamics vehicle concepts and aerodynamics pneumatic tires and contact wheel road off road modeling vehicle subsystems vehicle dynamics and active safety man vehicle interaction intelligent vehicle systems and road accident reconstruction and passive safety

Cyber Security and Safety of Nuclear Power Plant Instrumentation and Control Systems Yastrebenetsky, Michael A.,Kharchenko, Vyacheslav S.,2020-05-22 Safety and security are crucial to the operations of nuclear power plants but cyber threats to these facilities are increasing significantly Instrumentation and control systems which play a vital role in the prevention of these incidents have seen major design modifications with the implementation of digital technologies Advanced computing systems are assisting in the protection and safety of nuclear power plants however significant research on these computational methods is deficient Cyber Security and Safety of Nuclear Power Plant Instrumentation and Control Systems is a pivotal reference source that provides vital research on the digital developments of instrumentation and control systems for assuring the safety and security of nuclear power plants While highlighting topics such as accident monitoring systems classification measures and UAV fleets this publication explores individual cases of security breaches as well as future methods of practice This book is ideally designed for engineers industry specialists researchers policymakers scientists academicians practitioners and students involved in the development and operation of instrumentation and control systems for nuclear power plants chemical and petrochemical industries transport and medical equipment

Reliability and Risk Issues in Large Scale Safety-critical Digital Control Systems Poong-Hyun Seong,2008-10-25 Reliability and Risk Issues in Large Scale Safety critical Digital Control Systems provides a comprehensive coverage of reliability issues and their corresponding countermeasures in the field of large scale digital control systems from the hardware and software in digital systems to the human operators who supervise the overall process of large scale systems Unlike other books which examine theories and issues in individual fields this book reviews important problems and

countermeasures across the fields of software reliability software verification and validation digital systems human factors engineering and human reliability analysis Divided into four sections dealing with software reliability digital system reliability human reliability and human operators in large scale digital systems the book offers insights from professional researchers in each specialized field in a diverse yet unified approach *Statistical Reliability Engineering* Hoang Pham,2021-08-13 This book presents the state of the art methodology and detailed analytical models and methods used to assess the reliability of complex systems and related applications in statistical reliability engineering It is a textbook based mainly on the author's recent research and publications as well as experience of over 30 years in this field The book covers a wide range of methods and models in reliability and their applications including statistical methods and model selection for machine learning models for maintenance and software reliability statistical reliability estimation of complex systems and statistical reliability analysis of k out of n systems standby systems and repairable systems Offering numerous examples and solved problems within each chapter this comprehensive text provides an introduction to reliability engineering graduate students a reference for data scientists and reliability engineers and a thorough guide for researchers and instructors in the field **Reliability**

Assessment of Safety and Production Systems Jean-Pierre Signoret,Alain Leroy,2021-03-23 This book provides as simply as possible sound foundations for an in depth understanding of reliability engineering with regard to qualitative analysis modelling and probabilistic calculations of safety and production systems Drawing on the authors extensive experience within the field of reliability engineering it addresses and discusses a variety of topics including Background and overview of safety and dependability studies Explanation and critical analysis of definitions related to core concepts Risk identification through qualitative approaches preliminary hazard analysis HAZOP FMECA etc Modelling of industrial systems through static fault tree reliability block diagram sequential cause consequence diagrams event trees LOPA bowtie and dynamic Markov graphs Petri nets approaches Probabilistic calculations through state of the art analytical or Monte Carlo simulation techniques Analysis modelling and calculations of common cause failure and uncertainties Linkages and combinations between the various modelling and calculation approaches Reliability data collection and standardization The book features illustrations explanations examples and exercises to help readers gain a detailed understanding of the topic and implement it into their own work Further it analyses the production availability of production systems and the functional safety of safety systems SIL calculations showcasing specific applications of the general theory discussed Given its scope this book is a valuable resource for engineers software designers standard developers professors and students *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

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