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# Software Maintenance The Problem And Its Solution

**Piattini, Mario, Polo, Macario, Ruiz,  
Francisco**



## **Software Maintenance The Problem And Its Solution:**

*Software Maintenance* James Martin, Carma L. McClure, 1983 Designing for maintenance The methodology revolution Packages Performing the maintenance function Viewing the future *Software Maintenance* James Martin, Carma L. McClure, 1983

*Software Maintenance* James Martin, 1985 **Advances in Software Maintenance Management:**

**Technologies and Solutions** Piattini, Mario, Polo, Macario, Ruiz, Francisco, 2002-07-01 Advances in Software Maintenance Management Technologies and Solutions is a compilation of chapters from some of the best researchers and practitioners in the area of software maintenance The chapters in this book are intended to be useful to a wide audience where software maintenance is a mandatory matter for study **Software Maintenance - A Management Perspective** Phaneendra Nath Vellanky, 2007-10-23

Computer systems play an important role in our society Software drives those systems Massive investments of time and resources are made in developing and implementing these systems Maintenance is inevitable It is hard and costly Considerable resources are required to keep the systems active and dependable We cannot maintain software unless maintainability characters are built into the products and processes There is an urgent need to reinforce software development practices based on quality and reliability principles Though maintenance is a mini development lifecycle it has its own problems Maintenance issues need corresponding tools and techniques to address them Software professionals are key players in maintenance While development is an art and science maintenance is a craft We need to develop maintenance personnel to master this craft Technology impact is very high in systems world today We can no longer conduct business in the way we did before That calls for reengineering systems and software Even reengineered software needs maintenance soon after its implementation We have to take business knowledge procedures and data into the newly reengineered world Software maintenance people can play an important role in this migration process Software technology is moving into global and distributed networking environments Client server systems and object orientation are on their way Massively parallel processing systems and networking resources are changing database services into corporate data warehouses Software engineering environments rapid application development tools are changing the way we used to develop and maintain software Software maintenance is moving from code maintenance to design maintenance even onto specification maintenance Modifications today are made at specification level regenerating the software components testing and integrating them with the system Eventually software maintenance has to manage the evolution and evolutionary characteristics of software systems Software professionals have to maintain not only the software but the momentum of change in systems and software In this study we observe various issues tools and techniques and the emerging trends in software technology with particular reference to maintenance We are not searching for specific solutions We are identifying issues and finding ways to manage them live with them and control their negative impact Annotated Bibliography on

Software Maintenance Wilma M. Osborne, Ron Raigrodski, 1986 Software Maintenance Penny Grubb, Armstrong A.

Takang,2003 Software systems now invade every area of daily living Yet we still struggle to build systems we can really rely on If we want to work with software systems at any level we need to get to grips with the way software evolves This book will equip the reader with a sound understanding of maintenance and how it affects all levels of the software evolution process

*Software Evolution and Maintenance* Priyadarshi Tripathy,Kshirasagar Naik,2014-11-17 Provides students and engineers with the fundamental developments and common practices of software evolution and maintenance Software Evolution and Maintenance A Practitioner s Approach introduces readers to a set of well rounded educational materials covering the fundamental developments in software evolution and common maintenance practices in the industry Each chapter gives a clear understanding of a particular topic in software evolution and discusses the main ideas with detailed examples The authors first explain the basic concepts and then drill deeper into the important aspects of software evolution While designed as a text in an undergraduate course in software evolution and maintenance the book is also a great resource for software engineers information technology professionals and graduate students in software engineering Based on the IEEE SWEBOK Software Engineering Body of Knowledge Explains two maintenance standards IEEE EIA 1219 and ISO IEC14764 Discusses several commercial reverse and domain engineering toolkits Slides for instructors are available online Software Evolution and Maintenance A Practitioner s Approach equips readers with a solid understanding of the laws of software engineering evolution and maintenance models reengineering techniques legacy information systems impact analysis refactoring program comprehension and reuse

Software Engineering Andrea de Lucia,Filomena Ferrucci,2009-01-22 Software engineering is widely recognized as one of the most exciting stimulating and profitable research areas with a significant practical impact on the software industry Thus training future generations of software engineering researchers and bridging the gap between academia and industry are vital to the field The International Summer School on Software Engineering ISSSE which started in 2003 aims to contribute both to training future researchers and to facilitating the exchange of knowledge between academia and industry This volume constitutes a collection of articles originating from tutorial lectures given during the last three ISSSE summer schools as well as a number of contributions on some of the latest findings in the field of software engineering The book is organized in three parts on software requirements and design software testing and reverse engineering and management

**Effective Software Maintenance and Evolution** Stanislaw Jarzabek,2007-05-07 With software maintenance costs averaging 50% of total computing costs it is necessary to have an effective maintenance program in place Aging legacy systems for example pose an especially rough challenge as veteran programmers retire and their successors are left to figure out how the systems operate This book explores program analyzers reve

**Information Systems Foundations** Dennis N. Hart,Shirley Diane Gregor,2007-11-01 This volume contains the papers presented at the third biennial Information Systems Foundations Theory Representation and Reality Workshop held at The Australian National University in Canberra from 27 28 September 2006 The focus of the workshop was as for the others in the series the

foundations of Information Systems as an academic discipline The particular emphasis was as in past workshops the adequacy and completeness of theoretical underpinnings and the research methods employed At the same time the practical nature of the applications and phenomena with which the discipline deals were kept firmly in view Accordingly the papers in this volume range from the unashamedly theoretical in their focus Designing for Mutability in Information Systems Artifacts Towards a Unified Theory of Fit Task Technology and Individual to the much more practically oriented An Action Centred Approach to Conceptualising Information Support for Routine Work

**Software Conflict 2.0** Robert L. Glass, 2006 The nearly 60 essays in this book always easily digestible often profound and never too serious take up large themes and important questions never shying away from controversy Computer Books Conference on Software Maintenance, 1985, Sheraton Inn Washington-Northwest, November 11-13, 1985, 1985 *Designing Maintainable Software* Dennis D. Smith, 2012-12-06 This book is about maintaining computer software Its aim is to improve a program's capacity for altering code to fit changing requirements and for detecting and correcting errors The book is written primarily for systems analysts and programmers But others will also find it interesting Managers will find ways to decrease costs improve the organization's performance and lessen its liability exposure Researchers will be given principles to expand upon and will be able to develop techniques for solving new problems that arise in the world of maintenance Another group to benefit is students They will be given a foundation from which to write clear unambiguous programs Software maintenance is an important and timely area of investigation It is the component that gives an information system its flexibility It is also the source of many of its problems Software is costly to maintain It is the usual cause of system failures and is the frequently cited reason why systems operate in unintended ways Most software problems are not serious and require only minor repairs But some have resulted in the loss of significant physical and financial resources Others have cost lives The book argues for a new way of thinking about maintaining software Traditional approaches using software engineering and management disciplines do not adequately address maintenance issues What is proposed to solve problems utilizes a set of human factors principles that govern the programmer software event world interactions and form the core of the maintenance process Software Maintenance Management Alain April, Alain Abran, 2008-04-11 This book explores the domain of software maintenance management and provides road maps for improving software maintenance organizations It describes full maintenance maturity models organized by levels 1 2 and 3 which allow for benchmarking and continuous improvement paths Goals for each key practice area are also provided and the model presented is fully aligned with the architecture and framework of software development maturity models of CMMI and ISO 15504 It is complete with case studies figures tables and graphs **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     *Whole Earth Software Catalog* Stewart Brand,1984     *Advances in Learning Software Organizations* Grigori Melnik,Dr. Harald Holz,2004-06-14 Software intensive organizations cannot help but learn A software organization that does not learn will not exist for long because the software market is continuously on the move because of new customer demands and needs and because of new competitor products and services Software organizations must adapt quickly to this ever changing environment and the capability to adapt is one of the most important aspects of learning Smart organizations will attempt to predict future software demands and develop a corresponding knowledge road map that identifies the capabilities needed over time in order to meet these demands Organizational learning typically occurs when experienced organization members share their knowledge with colleagues such that the organization as a whole can profit from the intellectual capital of its members While knowledge is typically shared in an ad hoc fashion by means of direct face to face communication a learning software organization will want to ensure that this knowledge sharing occurs in a systematic way enabling it whenever and wherever it is needed Since 1999 the annual International Workshop on Learning Software Organizations LSO has provided a communication forum that brings together academia and industry to discuss the advancements in and to address the questions of continuous learning in software intensive organizations Building upon existing work on knowledge management and organizational learning the workshop series promotes interdisciplinary approaches from computer science and information systems business management and organization science as well as cognitive science

Facts and Fallacies of Software Engineering Robert L. Glass,2003 Regarding the controversial and thought provoking assessments in this handbook many software professionals might disagree with the authors but all will embrace the debate Glass identifies many of the key problems hampering success in this field Each fact is supported by insightful discussion and detailed references     *Unraveling Software Maintenance and Evolution* Ervin Varga,2018-01-29 Software maintenance work is often considered a dauntingly rigid activity this book proves the opposite it demands high levels of creativity and thinking outside the box Highlighting the creative aspects of software maintenance and combining analytical and systems thinking in a holistic manner the book motivates readers not to blithely follow the beaten tracks of technical rationality It delivers the

content in a pragmatic fashion using case studies which are woven into long running story lines The book is organized in four parts which can be read in any order except for the first chapter which introduces software maintenance and evolution and presents a number of case studies of software failures The Introduction to Key Concepts briefly introduces the major elements of software maintenance by highlighting various core concepts that are vital in order to see the forest for the trees Each such concept is illustrated with a worked example Next the Forward Engineering part debunks the myth that being fast and successful during initial development is all that matters To this end two categories of forward engineering are considered an inept initial project with a multitude of hard evolutionary phases and an effective initial project with multiple straightforward future increments Reengineering and Reverse Engineering shows the difficulties of dealing with a typical legacy system and tackles tasks such as retrofitting tests documenting a system restructuring a system to make it amenable for further improvements etc Lastly the DevOps section focuses on the importance and benefits of crossing the development versus operation chasm and demonstrates how the DevOps paradigm can turn a loosely coupled design into a loosely deployable solution The book is a valuable resource for readers familiar with the Java programming language and with a basic understanding and or experience of software construction and testing Packed with examples for every elaborated concept it offers complementary material for existing courses and is useful for students and professionals alike

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