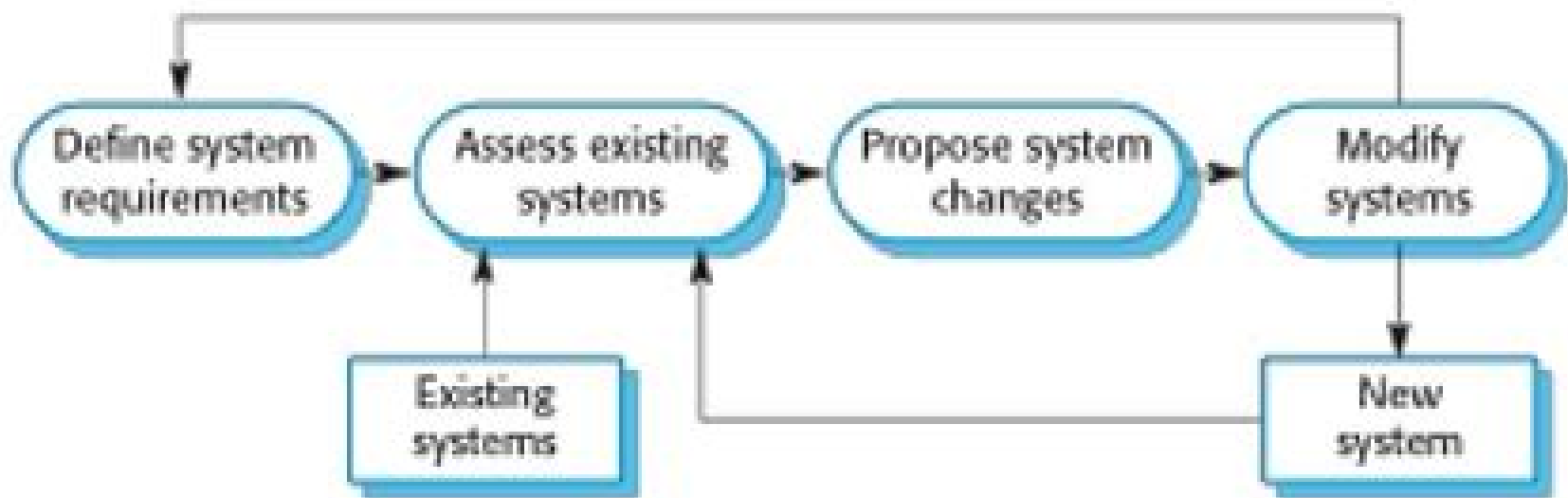


## software evolution (/software maintenance)



- ✧ The flexibility of software systems is essential issue
- ✧ It is very expensive to make changes to the hardware design. changes can be made to software at any time during or after the system development.



# Software Evolution A Software Maintenance Challenge

**B Lingard**



## **Software Evolution A Software Maintenance Challenge:**

*Software Evolution* Lowell Jay Arthur, 1988-03 Software evolution and maintenance Change management Impact analysis System release planning Corrective maintenance Adaptive maintenance Perfective maintenance Reengineering source code Software testing System release and configuration management Implementing software evolution Managing software Maintenance

**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 SWEBOOK 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 Evolution* Tom Mens, Serge Demeyer, 2008-01-25 This book focuses on novel trends in software evolution research and its relations with other emerging disciplines Mens and Demeyer both authorities in the field of software evolution do not restrict themselves to the evolution of source code but also address the evolution of other equally important software artifacts This book is the indispensable source for researchers and professionals looking for an introduction and comprehensive overview of the state of the art

**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 Success Recipes Donald J. Reifer, 2016-04-19 Software Maintenance Success Recipes identifies actionable formulas for success based on in depth analysis of more than 200 real world maintenance projects It details the set of factors that are usually present when effective software maintenance teams do their work and instructs on the methods required to achieve success Donald J Reifer an award winner for his contributions to the field of software engineering provides step by step guidance on how to structure the job to complete all of the work related to the task

**Emerging Technologies for the Evolution and Maintenance of**

**Software Models** Rech, Jörg, 2011-12-31 Model driven software development drastically alters the software development process which is characterized by a high degree of innovation and productivity Emerging Technologies for the Evolution and Maintenance of Software Models contains original academic work about current research and research projects related to all aspects affecting the maintenance evolution and reengineering MER as well as long term management of software models The mission of this book is to present a comprehensive and central overview of new and emerging trends in software model research and to provide concrete results from ongoing developments in the field

**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 reveal

*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

*Encyclopedia of Software Engineering Three-Volume Set (Print)* Phillip A. Laplante, 2010-11-22 Software engineering requires specialized knowledge of a broad spectrum of topics including the construction of software and the platforms applications and environments in which the software operates as well as an understanding of the people who build and use the software Offering an authoritative perspective the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy to read entries that cover software requirements design construction testing maintenance configuration management quality control and software engineering management tools and methods Editor Phillip A Laplante uses the most universally recognized definition of the areas of relevance to software engineering the Software Engineering Body of Knowledge SWEBOK as a template for organizing the material Also available in an electronic format this encyclopedia supplies software engineering students IT professionals researchers managers and scholars with unrivaled coverage of the topics that encompass this ever changing field Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

**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

*Software Maintenance Management* Alain April, Alain Abran, 2012-04-20 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

*Advanced Techniques in Computing Sciences and Software Engineering* Khaled Elleithy, 2010-03-10 Advanced Techniques in Computing Sciences and Software Engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Software Engineering Computer Engineering and Systems Engineering and Sciences Advanced Techniques in Computing Sciences and Software Engineering includes selected papers from the conference proceedings of the International Conference on Systems Computing Sciences and Software Engineering SCSS 2008 which was part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2008

**Software Engineering** Kassem A. Saleh, 2009 This book provides the software engineering fundamentals principles and skills needed to develop and maintain high quality software products It covers requirements specification design implementation testing and management of software projects It is aligned with the SWEBOK Software

Engineering Undergraduate Curriculum Guidelines and ACM Joint Task Force Curricula on Computing      Managing Corporate Information Systems Evolution and Maintenance Khaled M. Khan,Yan Zhang,2005-01-01 This book addresses the recent developments in systems maintenance research and practices ranging from technicality of systems evolution to managerial aspects of the topic including issues such as evolving legacy systems to e business applying patterns for reengineering legacy systems to web architectural recovery of legacy systems evolving legacy systems into software components      Code Complete Steve McConnell,2004 Annotation Widely considered one of the best practical guides to programming Steve McConnell s original CODE COMPLETE has been helping developers write better software for more than a decade Now this classic book has been fully updated and revised with leading edge practices and hundreds of new code samples illustrating the art and science of software construction Capturing the body of knowledge available from research academia and everyday commercial practice McConnell synthesizes the most effective techniques and must know principles into clear pragmatic guidance No matter what your experience level development environment or project size this book will inform and stimulate your thinking and help you build the highest quality code Discover the timeless techniques and strategies that help you Design for minimum complexity and maximum creativity Reap the benefits of collaborative development Apply defensive programming techniques to reduce and flush out errors Exploit opportunities to refactor or evolve code and do it safely Use construction practices that are right weight for your project Debug problems quickly and effectively Resolve critical construction issues early and correctly Build quality into the beginning middle and end of your project      **Object-oriented Software: Design And Maintenance** Miriam A M Capretz,Luiz Fernando Capretz,1996-09-09 This is a textbook for a course in object oriented software engineering at advanced undergraduate and graduate levels as well as for software engineers It contains more than 120 exercises of diverse complexity The book discusses fundamental concepts and terminology on object oriented software development assuming little background on software engineering and emphasizes design and maintenance rather than programming It also presents up to date and easily understood methodologies and puts forward a software life cycle model which explicitly encourages reusability during software development and maintenance      *The Information System Consultant's Handbook* William S. Davis,David C. Yen,2019-04-30 The Information System Consultant s Handbook familiarizes systems analysts systems designers and information systems consultants with underlying principles specific documentation and methodologies Corresponding to the primary stages in the systems development life cycle the book divides into eight sections Principles Information Gathering and Problem Definition Project Planning and Project Management Systems Analysis Identifying Alternatives Component Design Testing and Implementation Operation and Maintenance Eighty two chapters comprise the book and each chapter covers a single tool technique set of principles or methodology The clear concise narrative supplemented with numerous illustrations and diagrams makes the material accessible for readers effectively outlining new and unfamiliar analysis and design topics

**Electronic Government: Concepts, Methodologies, Tools, and Applications** Anttiroiko, Ari-Veikko, 2008-03-31

Provides research on e government and its implications within the global context Covers topics such as digital government electronic justice government to government information policy and cyber infrastructure research and methodologies

*Handbook of Software Engineering and Knowledge Engineering* Shi Kuo Chang, 2001 This is the first handbook to cover comprehensively both software engineering and knowledge engineering OCo two important fields that have become interwoven in recent years Over 60 international experts have contributed to the book Each chapter has been written in such a way that a practitioner of software engineering and knowledge engineering can easily understand and obtain useful information Each chapter covers one topic and can be read independently of other chapters providing both a general survey of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for solutions to practical problems Researchers can use it for quick access to the background current trends and most important references regarding a certain topic The handbook consists of two volumes Volume One covers the basic principles and applications of software engineering and knowledge engineering Volume Two will cover the basic principles and applications of visual and multimedia software engineering knowledge engineering data mining for software knowledge and emerging topics in software engineering and knowledge engineering Sample Chapter s Chapter 1 1 Introduction 97k Chapter 1 2 Theoretical Language Research 97k Chapter 1 3 Experimental Science 96k Chapter 1 4 Evolutionary Versus Revolutionary 108k Chapter 1 5 Concurrency and Parallelisms 232k Chapter 1 6 Summary 123k Contents Computer Language Advances D E Cooke et al Software Maintenance G Canfora Requirements Engineering A T Berztiss Software Engineering Standards Review and Perspectives Y X Wang A Large Scale Neural Network and Its Applications D Graupe Software Configuration Management in Software and Hypermedia Engineering A Survey L Bendix et al The Knowledge Modeling Paradigm in Knowledge Engineering E Motta Software Engineering and Knowledge Engineering Issues in Bioinformatics J T L Wang et al Conceptual Modeling in Software Engineering and Knowledge Engineering Concepts Techniques and Trends O Dieste et al Rationale Management in Software Engineering A H Dutoit Exploring Ontologies Y Kalfoglou and other papers Readership Graduate students researchers programmers managers and academics in software engineering and knowledge engineering

Context-Aware Systems and Applications, and Nature of Computation and Communication Phan Cong Vinh, Abdur Rakib, 2021-01-12 This book constitutes the refereed post conference proceedings of the International Conferences ICCASA and ICTCC 2020 held in November 2020 in Thai Nguyen Vietnam The 27 revised full papers presented were carefully selected from 68 submissions The papers of ICCASA cover a wide spectrum in the area of context aware systems CAS is characterized by its self facets such as self organization self configuration self healing self optimization self protection used to dynamically control computing and networking functions The papers of ICTCC cover formal methods for self adaptive systems and discuss natural approaches and techniques for computation and communication

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