

Ivar Jacobson • Martin Griss • Patrik Jonsson

SOFTWARE REUSE

Architecture, Process
and Organization for
Business Success



Software Reuse Architecture Process And Organization For Business Success

Joacim Rocklöv



Software Reuse Architecture Process And Organization For Business Success:

Software Reuse Ivar Jacobson, Martin Griss, Patrik Jonsson, 1997 Introducing the reuse driven software engineering business Architectural style Processes Organizing a reuse business *Software Reuse: Advances in Software Reusability* William B. Frakes, 2004-02-02 This book constitutes the refereed proceedings of the 6th International Conference on Software Reuse ICSR 6 held in Vienna Austria in June 2000 The 26 revised full papers presented were carefully reviewed and selected from numerous submissions The book is divided into topical sections on generative reuse and formal description languages object oriented methods product line architectures requirements reuse and business modeling components and libraries and design patterns **Making the Software Business Case** Donald J. Reifer, 2001-09-05 Just the understanding and insights you will pick up about how people encounter and cope with combinations of technical social political and economic opportunities and challenges make the book a joy to read and worth much more than the price of it alone Barry Boehm from the Foreword This practical handbook shows you how to build an effective business case when you need to justify and persuade management to accept software change or improvement Based on real world scenarios the book covers the most common situations in which business case analyses are required and explains specific techniques that have proved successful in practice Drawing on years of experience in winning the battle of the budget the author shows you how to use commonly accepted engineering economic arguments to make your numbers sing to management The book provides examples of successful business cases along the way tables tools facts figures and metrics guide you through the entire analytic process Writing in a concise and witty style the author makes this valuable guidance accessible to every software engineer manager and IT professional Highlights include How and where business case analyses fit into the software and IT life cycle process Explanations of the most common tools for business case analysis such as present value return on investment break even and cost benefit calculation Tying the business process to the software development life cycle Packaging the business case for management consumption Frameworks and guidelines for justifying IT productivity quality and delivery cycle improvement strategies Case studies for applying appropriate decision situations to software process improvement Strategic guidelines for various business case analyses With this book in hand you will find the facts examples hard data and case studies needed for preparing your own winning business cases in today's complex software environment

Software Reuse: Methods, Techniques, and Tools Cristina Gacek, 2003-08-01 As a result of the open source movement there is now a great deal of reusable software available in the public domain This offers significant functionality that commercial software vendors can use in their software projects Open source approaches to software development have illustrated that complex mission critical software can be developed by distributed teams of developers sharing a common goal Commercial software vendors have an opportunity to both learn from the open source community as well as leverage that knowledge for the benefit of its commercial clients Nonetheless the open source movement is a diverse collection of ideas

knowledge techniques and solutions As a result it is far from clear how these approaches should be applied to commercial software engineering This paper has looked at many of the dimensions of the open source movement and provided an analysis of the different opportunities available to commercial software vendors References and Notes 1 It can be argued that the open source community has produced really only two essential 9 products Apache undeniably the most popular web server and Linux although both are essentially reincarnations of prior systems Both are also somewhat products of their times Apache filled a hole in the then emerging Web at a time no platform vendor really knew how to step in and Linux filled a hole in the fragmented Unix market colored by the community s general anger against Microsoft 2 Evans Marketing Services Linux Developers Survey Volume 1 March 2000 *Software Product Lines* Robert L. Nord,2004-07-30 This book constitutes the refereed proceedings of the Third International Software Product Line Conference SPLC 2004 held in Boston MA USA in August September 2004 The 18 revised full technical papers presented together with a keynote abstract and summaries of panels tutorials and workshops were carefully reviewed and selected for inclusion in the book Organized in sections on business architecture and quality assurance the papers address topics ranging from how to start a software product line in a company to case studies of mature product lines and the technology used to test strategies of product lines to strategies and notations for creating product line architectures and to the importance of binding times in creating product lines **Practicing Software Engineering in the 21st Century** Lloyd, Scott J.,Peckham, Joan,2000-01-01 This technological manual explores how software engineering principles can be used in tandem with software development tools to produce economical and reliable software that is faster and more accurate Tools and techniques provided include the Unified Process for GIS application development service based approaches to business and information technology alignment and an integrated model of application and software security Current methods and future possibilities for software design are covered *The Art of Software Architecture* Stephen T. Albin,2003-03-20 This innovative book uncovers all the steps readers should follow in order to build successful software and systems With the help of numerous examples Albin clearly shows how to incorporate Java XML SOAP ebXML and BizTalk when designing true distributed business systems Teaches how to easily integrate design patterns into software design Documents all architectures in UML and presents code in either Java or C Managing Iterative Software Development Projects Kurt Bittner,Ian Spence,2006-06-27 The Practical Start to Finish Guide to Planning and Leading Iterative Software Projects Iterative processes have gained widespread acceptance because they help software developers reduce risk and cost manage change improve productivity and deliver more effective timely solutions But conventional project management techniques don t work well in iterative projects and newer iterative management techniques have been poorly documented Managing Iterative Software Development Projects is the solution a relentlessly practical guide to planning organizing estimating staffing and managing any iterative project from start to finish Leading iterative development experts Kurt Bittner and Ian Spence introduce a proven scalable approach that improves both

agility and control at the same time satisfying the needs of developers managers and the business alike Their techniques are easy to understand and easy to use with any iterative methodology from Rational Unified Process to Extreme Programming to the Microsoft Solutions Framework Whatever your role team leader program manager project manager developer sponsor or user representative this book will help you Understand the key drivers of success in iterative projects Leverage time boxing to define project lifecycles and measure results Use Unified Process phases to facilitate controlled iterative development Master core concepts of iterative project management including layering and evolution Create project roadmaps including release plans Discover key patterns of risk management estimation organization and iteration planning Understand what must be controlled centrally and what you can safely delegate Transition smoothly to iterative processes Scale iterative project management from the smallest to the largest projects Align software investments with the needs of the business Whether you are interested in software development using RUP OpenUP or other agile processes this book will help you reduce the anxiety and cost associated with software improvement by providing an easy non intrusive path toward improved results without overwhelming you and your team **Patterns-Based Engineering** Lee Ackerman,Celso

Gonzalez,2010-06-29 Successfully delivering Solutions via Patterns In Patterns Based Engineering two leading experts bring together true best practices for developing and deploying successful software intensive systems Drawing on their extensive enterprise development experience the authors clearly show how to deliver on the promise of a patterns based approach and consistently create higher quality solutions faster with fewer resources Lee Ackerman and Celso Gonzalez demonstrate how Patterns Based Engineering PBE can help you systematically overcome common obstacles to success with patterns By bringing discipline and clarity to patterns usage their techniques enable you to replicate your success broadly and scale patterns to even the largest projects The authors introduce powerful ways to discover design create package and consume patterns based on your organization s experience and best practices They also present extensive coverage of the nontechnical aspects of making patterns work including a full chapter of guidance on clearing up misconceptions that stand in your way Coverage includes Using patterns to optimize the entire development lifecycle including design coding testing and deployment Systematically managing the risks and economic returns associated with patterns Effectively implementing PBE roles tasks work products and tools Integrating PBE with existing development processes including eXtreme Programming Scrum and OpenUP Using Domain Specific Languages DSLs with patterns Whether you re an architect designer developer analyst project manager or process engineer Patterns Based Engineering will help you to consistently derive greater business value and agility from patterns Software Engineering with Ada Grady Booch,Douglas L. Bryan,Charles G. Petersen,1994 Provides complete coverage of the Ada language and Ada programming in general by recognized authorities in Ada software engineering Demonstrates the power and performance of Ada in the management of large scale object oriented systems and shows how to use Ada features such as generics packages and tasking

Information Modelling and Knowledge Bases XV Yasushi Kiyoki, 2004 This book will provide research communities in Europe and Japan with an overview of scientific results and experiences achieved using innovative methods and approaches in computer science and other disciplines which have a common interest in understanding and solving problems on information modelling and knowledge bases as **Software Development Patterns and Antipatterns** Capers

Jones, 2021-08-27 Software development has been a troubling since it first started There are seven chronic problems that have plagued it from the beginning Incomplete and ambiguous user requirements that grow by 2% per month Major cost and schedule overruns for large applications 35% higher than planned Low defect removal efficiency DRE Cancelled projects that are not completed 30% above 10 000 function points Poor quality and low reliability after the software is delivered 5 bugs per FP Breach of contract litigation against software outsource vendors Expensive maintenance and enhancement costs after delivery These are endemic problems for software executives software engineers and software customers but they are not insurmountable In *Software Development Patterns and Antipatterns* software engineering and metrics pioneer Capers Jones presents technical solutions for all seven The solutions involve moving from harmful patterns of software development to effective patterns of software development The first section of the book examines common software development problems that have been observed in many companies and government agencies The data on the problems comes from consulting studies breach of contract lawsuits and the literature on major software failures This section considers the factors involved with cost overruns schedule delays canceled projects poor quality and expensive maintenance after deployment The second section shows patterns that lead to software success The data comes from actual companies The section's first chapter on Corporate Software Risk Reduction in a Fortune 500 company was based on a major telecom company whose CEO was troubled by repeated software failures The other chapters in this section deal with methods of achieving excellence as well as measures that can prove excellence to C level executives and with continuing excellence through the maintenance cycle as well as for software development *Issues & Trends of Information Technology Management in Contemporary*

Organizations Information Resources Management Association. International Conference, 2002-01-01 As the field of information technology continues to grow and expand it impacts more and more organizations worldwide The leaders within these organizations are challenged on a continuous basis to develop and implement programs that successfully apply information technology applications This is a collection of unique perspectives on the issues surrounding IT in organizations and the ways in which these issues are addressed This valuable book is a compilation of the latest research in the area of IT utilization and management **Software Product Lines** Robert Nord, 2004-08-18 This book constitutes the refereed proceedings of the Third International Software Product Line Conference SPLC 2004 held in Boston MA USA in August September 2004 The 18 revised full technical papers presented together with a keynote abstract and summaries of panels tutorials and workshops were carefully reviewed and selected for inclusion in the book Organized in sections on business

architecture and quality assurance the papers address topics ranging from how to start a software product line in a company to case studies of mature product lines and the technology used to test strategies of product lines to strategies and notations for creating product line architectures and to the importance of binding times in creating product lines

Future-Proof Software-Systems Frank J. Furrer, 2019-09-25 This book focuses on software architecture and the value of architecture in the development of long lived mission critical trustworthy software systems The author introduces and demonstrates the powerful strategy of Managed Evolution along with the engineering best practice known as Principle based Architecting The book examines in detail architecture principles for e g Business Value Changeability Resilience and Dependability The author argues that the software development community has a strong responsibility to produce and operate useful dependable and trustworthy software Software should at the same time provide business value and guarantee many quality of service properties including security safety performance and integrity As Dr Furrer states Producing dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality of service properties of the software systems The book presents extensive coverage of such concepts as Principle Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures tables examples and illustrative quotations Future Proof Software Systems provides a set of good engineering practices devised for integration into most software development processes dedicated to the creation of software systems that incorporate Managed Evolution

Handbook of Software Engineering & Knowledge Engineering: Fundamentals Shi Kuo Chang, 2001 This is the first handbook to cover comprehensively both software engineering and knowledge engineering 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

Software Product Lines Patrick Donohoe, 2012-12-06 Software product lines are emerging as a critical new paradigm for software development Product lines are enabling organizations to achieve impressive time to market gains and cost reductions With the increasing number of product lines and product line researchers and practitioners

the time is right for a comprehensive examination of the issues surrounding the software product line approach The Software Engineering Institute at Carnegie Mellon University is proud to sponsor the first conference on this important subject This book comprises the proceedings of the First Software Product Line Conference SPLC1 held August 28 31 2000 in Denver Colorado USA The twenty seven papers of the conference technical program present research results and experience reports that cover all aspects of software product lines Topics include business issues enabling technologies organizational issues and life cycle issues Emphasis is placed on experiences in the development and fielding of product lines of complex systems especially those that expose problems in the design development or evolution of software product lines The book will be essential reading for researchers and practitioners alike Software Metrics C. Ravindranath Pandian, 2003-09-26 The modern field of software metrics emerged from the computer modeling and statistical thinking services of the 1980s As the field evolved metrics programs were integrated with project management and metrics grew to be a major tool in the managerial decision making process of software companies This book simplifies software measurement and explains its value as a tool for decision makers at software companies Techniques presented in Software Metrics A Guide to Planning Analysis and Application are derived from best practices The ideas are field proven down to earth and straightforward making it an invaluable resource for those striving for process improvement This overview helps readers enrich their knowledge of measurements analysis and best practices and demonstrates how ordinary analysis techniques can be applied to achieve extraordinary results Easy to understand tools and techniques show how metrics create models that are indispensable to decision making in the software industry **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

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Building Reliable Component-based Software Systems Ivica Crnkovic, Magnus Peter Henrik Larsson, 2002 Here s a complete guide to building reliable component based software systems Written by world renowned experts in the component based software engineering field this unique resource helps you manage complex software through the development evaluation and integration of software components You quickly develop a keen awareness of the benefits and risks to be considered when developing reliable systems using components A strong software engineering perspective helps you gain a better understanding of software component design to build systems with stronger requirements and avoid typical errors throughout the process leading to improved quality and time to market From component definition standards objects and frameworks to organizational development and support of the component based life cycle the book describes aspects of systems development using components and component development It focuses on dependable and real time systems employing case studies from the process automation industry software production electronic consumer equipment and office software development

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