

Marjan Sarshar (Ed.)

Systematic Reuse: Issues in Initiating and Improving a Reuse Program

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Systematic Reuse

Carma McClure



Systematic Reuse:

Systematic Reuse: Issues in Initiating and Improving a Reuse Program Marjan Sarshar, 2012-12-06 Based on papers accepted for presentation at the 1996 Workshop on Systematic Reuse Issues in Initiating and Improving a Reuse Program Liverpool UK this volume provides a comprehensive introduction to the effective management of software reuse It examines a number of central issues such as the critical success factors for reuse the amount of investment required and the expected payback period the type of training needed tools and the impact of reuse on organisation structure There is a strong emphasis on the industrial application of systematic reuse an area which is currently expanding at a rapid rate illustrated by the experiences of leading international companies such as IBM Hitachi Europe and AT T Overall this volume sets out comprehensive guidelines on the introduction and maintenance of a reuse program It will provide an invaluable reference book for software development practitioners systems analysts and architects and development managers *Software Reuse, Second Edition* Ronald J. Leach, 2013-05 This book is an updated edition of the previous McGraw Hill edition which was an essential guide to successful reuse across the entire software life cycle It explains in depth the fundamentals economics and metrics of software reuse The bottom line is good news for designers of complex systems Systematic software reuse can succeed even if the underlying technology is changing rapidly Software reuse has been called the central technical concept of object oriented design This book covers reuse in object oriented systems but goes far beyond in its coverage of complex systems the type that may evolve into systems of systems Important new material has been added to this edition on the changed state of the art and state of the practice of software reuse on product line architectures on the economics of reuse on the maintenance of COTS based systems A case study using DoDAF The Department of Defense Architectural Framework in system design has been included to show some new thinking about reuse and some attributes of large scale components of very large systems After an introduction to basics the book shows you how to 1 Access reuse and disadvantages for your systems 2 Understand and use domain analysis 3 Estimate total costs including maintenance using life cycle based models 4 Organize and manage reuse libraries 5 Certify software components that have been created at any phase of the software life cycle your organization uses 6 Implement systematic reuse using COTS commercial off the shelf components and other existing software The book includes several models and reengineering checklists as well as important case studies These models and checklists help anyone faced with the problem of whether to build buy reuse or reengineer any software component system or subsystem of reasonable complexity Such components subsystems and systems often fit into the new paradigms of service oriented architectures SOA and software as a service SaAS Software Reuse Methods Models Costs emphasizes the cost efficient development of high quality software systems in changing technology environments Our primary example of domain analysis which is the analysis of software into potentially reusable artifacts often at a higher level than simply source code modules is the assessment of possibilities for reuse in the Linux kernel There are eight chapters in

Software Reuse Methods Models Costs What is Software Reuse Techniques which included domain analysis Reuse Libraries Certification of Reusable Software Components The Economics of Software Reuse Reengineering Case Studies and Tools For Software Reuse

Managing Enterprise Content Ann Rockley, Pamela Kostur, 2003 Provides guidelines and concepts to follow for planning developing and implementing a successful content management strategy

Practical Software Reuse Michel Ezran, Maurizio Morisio, Colin Tully, 2012-12-06 Right context software reuse promises high value to businesses that develop software opening the door to radical improvements in their software capability productivity cost time to market Attempts to adopt reuse without a sound understanding of the range of issues involved however can lead to expensive failure This book is for those who are wondering whether they should adopt reuse and how and also to those who have already started to adopt it but are wondering where they may be going wrong and how they could do better It consistently emphasizes the practical issues that influence success or failure in reuse and it offers a concise and balanced coverage of the essentials of the subject rather than going into undue depth or detail on some topics at the expense of others It occupies the central ground between being on the one hand an academic textbook and on the other hand a cookbook with ready made recipes for exactly how to do it The authors have drawn on their extensive experience of reuse and of software process improvement to provide a readable and balanced coverage of the subject This book is suitable for business executives software managers and software developers regardless of whatever kind of software or applications are developed by their organisations and whatever the size of those organisations A special feature of the book is the frequent use of experience notes drawn from the real life experience of organisations that have embarked on the reuse adventure

Software Reuse Shiping Chen, 2021-03-17 With the increasing sizes and complexity of software systems people do need to reuse as many software artefacts templates processes design patterns code tools and services as possible in each stage of software development to save effort time and money in today's competitive market This book aims to provide a systematic software reuse practice spanning the whole software development life cycle SDLC to different people a Teachers can use it as their textbook to deliver a course of software reuse or software engineering at universities colleges and or intensive software training centres b Students can learn basic concepts and skills in developing large scale enterprise software systems for their job hunting and career development c Software engineers can recharge themselves with this book to become a full stack software engineer d CTO Managers may better realise the value of software reuse and reusable software assets in their companies by reading this book

Software Product Lines Timo Käkölä, Juan Carlos Dueñas, 2007-02-07 Between July 1999 and June 2005 a group of European companies research institutes and universities executed the EUREKA ITEA projects ESAPS CAF and FAMILIES on the topic of product line engineering The projects originated from the need of the industry to improve software engineering performance by organizing product development in product lines The results obtained within the projects have been implemented in several large industries e.g. automotive e business medical systems and mobile phones

They involve a radical shift in software construction and production. The most important research results of the projects are collected in this book. Product line engineering was already applied within industry in the 1980s and presumably earlier. In the 1980s good architects in many telecommunications companies based their architectures on the ideas of David Parnas who published on the subject of program families. They were facilitated by the CHILL language widely used by the telecommunications companies. This language deploys the same modularity principles as the Modula programming language family. Modularity is a crucial ingredient for implementing systems with a component based architecture. Being able to compose the products of components is an important mechanism in all product line architectures. In the 1990s the product line ideas started to gain ground in other industries. Around 1995 the company experiences reached the academia and since then people in companies and academia have collaborated widely on this subject. The ESAPS, CAF and FAMILIES projects manifest an institutionalized form of this collaboration. *Software Engineering with Reusable Components* Johannes Sametinger, 2013-04-17. Software is rarely built completely from scratch. To a great extent existing software documents, source code, design documents etc are copied and adapted to fit new requirements. Yet we are far from the goal of making reuse the standard approach to software development. Software reuse is the process of creating software systems from existing software rather than building them from scratch. Software reuse is still an emerging discipline. It appears in many different forms from ad hoc reuse to systematic reuse and from white box reuse to black box reuse. Many different products for reuse range from ideas and algorithms to any documents that are created during the software life cycle. Source code is most commonly reused thus many people misconceive software reuse as the reuse of source code alone. Recently source code and design reuse have become popular with object oriented class libraries, application frameworks and design patterns. Software components provide a vehicle for planned and systematic reuse. The software community does not yet agree on what a software component is exactly. Nowadays the term component is used as a synonym for object most of the time but it also stands for module or function. Recently the term component based or component oriented software development has become popular. In this context components are defined as objects plus something. What something is exactly or has to be for effective software development remains yet to be seen. However systems and models are emerging to support that notion.

Software Reuse Carma McClure, 2001-07-11. Reuse is one of the simplest and oldest concepts in programming and one that is often underutilized. When implemented purposefully and correctly reuse can save time and money as well as create an inventory of valuable and reusable software assets. Dr Carma McClure, one of the principal writers of the IEEE's Software Reuse Standard 1517, provides clear, concise and applied information to make effective software reuse a reality. This book provides specific instructions for implementing reuse within the context of the IEEE EIA Standard 12207 Standard for Information Technology Software Life Cycle Processes. This new guide aids the reader in interpreting the meaning of the standard, implementing the standard and applying the standard. Like IEEE Std 1517 this book is written for both managers

and technical personnel involved in acquiring supplying or developing software applications and systems or reusable assets

Software Reuse Ivar Jacobson, Martin Griss, Patrik Jonsson, 1997 *Introducing the reuse driven software engineering business Architectural style Processes Organizing a reuse business* Third International Conference on Software Reuse: Advances in Software Reusability William Bruce Frakes, 1994 **Systematic Versus Accidental Reuse in Japanese Software Factories** Michael A. Cusumano, 1991 *Software Reuse*, 2004 An Approach to Systematic Software Reuse Based on Plugging Components Into an Architecture Ezra Kaahwa Mugisa, 2000 *Practical Software Reuse* Donald J. Reifer, 1997-08-18 The comprehensive guide to software re engineering and reuse Despite the fact that most software uses the same blocks of code over and over again almost all software is built from the ground up Just starting to catch on is the idea that these blocks of code can be used as standard components in creating new applications However this assembly line mentality is foreign to most software developers *Practical Software Reuse* shows developers how to take advantage of existing codes to build commercial software faster and cheaper covering reuse operations competitive benchmarking transitioning to the reuse process utilizing off the shelf software and more **Data Processing Digest**, 1994 Software Reuse Ronald J. Leach, 1997 Software reuse offers great cost saving potential and this book spells out the methods and tools to realize these savings Covering cost models for reuse certification for reusable components and reuse driven requirements engineering this book helps demystify this area of software development Reuse Based Software Engineering Hafedh Mili, 2002 Publisher description for Reuse based software engineering techniques organization and measurement Hafedh Mili et al Bibliographic record and links to related information available from the Library of Congress catalog Information from electronic data provided by the publisher May be incomplete or contain other coding Integrating three important aspects of software reuse technical management and organizational this indispensable reference shows how these fundamental aspects are used in the development lifecycle of component based software engineering and product line engineering The book explores the basic foundations upon which reuse processes and approaches can be established and discusses state of the art and state of the practice of software reuse Library of Congress subject headings for this publication Computer software Reusability *Software Reuse Issues* Susan J. Voight, Kathryn Anne Smith, 1989 **Managing Software Reuse** Wayne C. Lim, 1998 Borders in the style of medieval manuscripts patterns based on Greek and Persian pottery designs adapted from Venetian lace this unique sourcebook abounds in splendid original ornaments Its gorgeous black and white drawings include such diverse influences as German Gothic Japanese Arabic Indian Celtic and ancient Roman art A pioneer of modern design Christopher Dresser 1834 1904 was one of the Victorian era s most important and influential stylists whose works are eagerly sought by artists and craftspeople A botanist by training Dresser was particularly skilled in the execution of floral motifs This versatile collection of his designs can be easily adapted to art and craft projects textiles interior decoration wall hangings lacework carvings and much more **Measuring Software Reuse** Jeffrey S. Poulin, 1997 This book documents

methods for quantifying the benefits of software reuse so that developers can accurately judge whether the benefits outweigh the disadvantages It explains how to apply reuse metrics reuse economic models and reuse Return On Investment ROI models in diverse organizations and many different programming languages

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