



Legacy Systems

Renaibance Of Legacy Systems Method Support For Softwaresytem Evolution

Frank J. Furrer



Renaissance Of Legacy Systems Method Support For Software System Evolution:

The Renaissance of Legacy Systems Ian Warren, 2012-12-06 Today software professionals recognize that change in software systems is inevitable. There are many systems currently in operation, however, which were developed before the need for change was understood. Such systems are commonly referred to as legacy systems and were developed with relatively short lifetimes in mind. Software engineering is a relatively young discipline which is continually improving to provide better support for the development of software systems. What were once state of the art techniques, tools, and processes are now dated and have resulted in systems which are not responsive to change. For historical reasons, dated development practice traded maintainability for other system attributes such as cost and performance. A significant number of legacy systems remain in operation because they are critical to the business processes which they support. The combination of extended lifetimes and poor maintainability means that legacy systems are expensive to change and in many cases they cannot accommodate emerging requirements. This is clearly an undesirable situation which until recently has been tackled by replacing the system or attempting to maintain it. Replacing a legacy system is dangerous since you face the risk of losing vital business knowledge which is embedded in many old systems. In many cases, system replacement is not cost effective. Conversely, if you attempt to maintain a legacy system, there is often little return on the investment in maintenance effort and the system remains difficult and expensive to change.

The Renaissance of Legacy Systems Ian Warren, 2011-12-08 Many antiquated or legacy systems are still in operation today because they are critical to the organizations continued operations or are prohibitively expensive to replace. This book guides practitioners in managing the process of legacy system evolution. The author introduces a comprehensive method for managing a software evolution project from its conception to the deployment of the resulting system. The book helps managers answer two critical decisions: What is the best way to evolve a particular legacy system and How can the legacy system be migrated to a selected target architecture.

Software Evolution with UML and XML Hongji Yang, 2005-01-01 This title provides a forum where expert insights are presented on the subject of linking three current phenomena: software evolution, UML, and XML.

Modernizing Legacy Systems Robert C. Seacord, Daniel Plakosh, Grace A. Lewis, 2003 Most organizations rely on complex enterprise information systems (EISs) to codify their business practices and collect, process, and analyze business data. These EISs are large, heterogeneous, distributed, constantly evolving, dynamic, long lived, and mission critical. In other words, they are a complicated system of systems. As features are added to an EIS, new technologies and components are selected and integrated. In many ways, these information systems are to an enterprise what a brain is to the higher species: a complex, poorly understood mass upon which the organism relies for its very existence. To optimize business value, these large, complex systems must be modernized, but where does one begin? This book uses an extensive real world case study based on the modernization of a thirty year old retail system to show how modernizing legacy systems can deliver significant business value to any organization.

Model-Driven Software Migration: A Methodology Christian Wagner, 2014-03-10 Today reliable software systems are the basis of any business or company. The continuous further development of those systems is the central component in software evolution. It requires a huge amount of time, man power as well as financial resources. The challenges are size, seniority and heterogeneity of those software systems. Christian Wagner addresses software evolution, the inherent problems and uncertainties in the process. He presents a model driven method which leads to a synchronization between source code and design. As a result, the model layer will be the central part in further evolution and source code becomes a by product. For the first time, a model driven procedure for maintenance and migration of software systems is described. The procedure is composed of a model driven reengineering and a model driven migration phase. The application and effectiveness of the procedure are confirmed with a reference implementation applied to four exemplary systems. 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. **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. Service Research Challenges and Solutions for the Future Internet M. Papazoglou, Klaus Pohl, Michael Parkin, Andreas Metzger, 2010-12-15 S-Cube's Foundations for the Internet of Services. Today's Internet is standing at a crossroads. The Internet has evolved from a source of information to a critical infrastructure which underpins our lives and economies. The

demand for more multimedia content more interconnected devices more users a richer user experience services available any time and anywhere increases the pressure on existing networks and service platforms The Internet needs a fundamental rearrangement to be ready to meet future needs One of the areas of research for the Future Internet is the Internet of Services a vision of the Internet where everything e.g. information software platforms and infrastructures is available as a service Services available on the Internet of Services can be used by anyone if they are used according to the policies defined by the provider and they can be extended with new services by anyone Advantages of the Internet of Services include the possibility to build upon other people's efforts and the little investment needed upfront to develop an application The risk involved in pursuing new business ideas is diminished and might lead to more innovative ideas being tried out in practice It will lead to the appearance of new companies that are able to operate in niche areas providing services to other companies that will be able to focus on their core business

Systems Development Methods for Databases, Enterprise Modeling, and Workflow Management Wita Wojtkowski, W. Gregory Wojtkowski, Stanislaw Wrycza, Jozse Zupancic, 2012-12-06 This book is a result of the ISD 99 Eight International Conference on Information Systems Development Methods and Tools Theory and Practice held August 11-13 1999 in Boise Idaho USA The purpose of this conference was to address the issues facing academia and industry when specifying developing managing and improving information systems ISD 99 consisted not only of the technical program represented in these Proceedings but also of plenary sessions on product support and content management systems for the Internet environment workshop on a new paradigm for successful acquisition of information systems and a panel discussion on current pedagogical issues in systems analysis and design The selection of papers for ISD 99 was carried out by the International Program Committee Papers presented during the conference and printed in this volume have been selected from submissions after formal double blind reviewing process and have been revised by their authors based on the recommendations of reviewers Papers were judged according to their originality relevance and presentation quality All papers were judged purely on their own merits independently of other submissions We would like to thank the authors of papers accepted for ISD 99 who all made gallant efforts to provide us with electronic copies of their manuscripts conforming to common guidelines We thank them for thoughtfully responding to reviewers comments and carefully preparing their final contributions We thank Daryl Jones provost of Boise State University and William Lathen dean College of Business and Economics for their support and encouragement

Managed Evolution Stephan Murer, Bruno Bonati, 2010-10-29 Many organizations critically depend on very large information systems In the authors experience these organizations often struggle to find the right strategy to sustainably develop their systems Based on their own experience at a major bank over more than a decade the authors have developed a successful strategy to deal with these challenges including A thorough analysis of the challenges associated with very large information systems An assessment of possible strategies for the development of these systems resulting in managed evolution as the preferred strategy Describing key system aspects for the

success of managed evolution such as architecture management integration architecture and infrastructure Developing the necessary organizational cultural governance and controlling mechanisms for successful execution

Intelligent Systems in Cybernetics and Automation Control Theory Radek Silhavy,Petr Silhavy,Zdenka Prokopova,2018-08-28 This book presents real world problems and pioneering research that reflect novel approaches to cybernetics algorithms and software engineering in the context of intelligent systems It gathers the peer reviewed proceedings of the 2nd Computational Methods in Systems and Software 2018 CoMeSySo 2018 a conference that broke down traditional barriers by being held online The goal of the event was to provide an international forum for discussing the latest high quality research results

Integrated Formal Methods Erika Ábrahám,Marieke Huisman,2016-05-23 This book constitutes the refereed proceedings of the 12th International Conference on Integrated Formal Methods IFM 2016 held in Reykjavik Iceland in June 2016 The 33 papers presented in this volume were carefully reviewed and selected from 99 submissions They were organized in topical sections named invited contributions program verification probabilistic systems concurrency safety and liveness model learning SAT and SMT solving testing theorem proving and constraint satisfaction case studies

Systems Engineering for Business Process Change Peter Henderson,2012-12-06 A very large proportion of commercial and industrial concerns in the UK find their business competitiveness dependent on huge quantities of already installed legacy IT Often the nature of their business is such that to remain competitive they have to be able to change their business processes Sometimes the required change is radical and revolutionary but more often the required change is incremental For such incremental change a major systems engineering problem arises The cost and delay involved in changing the installed IT to meet the changed business requirements is much too high In order to address this issue the UK Engineering and Physical Science Research Council EPSRC set up in 1996 a managed research programme entitled Systems Engineering for Business Process Change SEBPC I was appointed as co ordinator of the programme The overall aim of this new managed research programme was to release the full potential of IT as an enabler of business process change and to overcome the disabling effects which the build up of legacy systems has on such change As such this aim addressed a stated objective of the Information Technology and Computer Science IT CS part of EPSRC to encourage research at a system level

Safety and Security of Cyber-Physical Systems Frank J. Furrer,2022-07-20 Cyber physical systems CPSs consist of software controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators Because most of the functionality of a CPS is implemented in software the software is of crucial importance for the safety and security of the CPS This book presents principle based engineering for the development and operation of dependable software The knowledge in this book addresses organizations that want to strengthen their methodologies to build safe and secure software for mission critical cyber physical systems The book Presents a successful strategy for the management of vulnerabilities threats and failures in mission critical cyber physical systems Offers deep practical insight into principle based software development 62

principles are introduced and cataloged into five categories Business Provides direct guidance on architecting and operating dependable cyber physical systems for software managers and architects **Evaluation of Novel Approaches to Software Engineering** Ernesto Damiani,George Spanoudakis,Leszek A. Maciaszek,2019-06-29 This book constitutes the refereed proceedings of the 13th International Conference on Evaluation of Novel Approaches to Software Engineering ENASE 2018 held in Funchal Madeira Portugal in March 2018 The 17 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 95 submissions The papers are organized in topical sections on service science and business information systems and software engineering **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

Migrating Legacy Applications: Challenges in Service Oriented Architecture and Cloud Computing Environments Ionita, Anca Daniela,Litoiu, Marin,Lewis, Grace,2012-11-30 This book presents a closer look at the partnership between service oriented architecture and cloud computing environments while analyzing potential solutions to challenges related to the migration of legacy applications Provided by publisher *Software Process Improvement* Ita Richardson,Per Runeson,Richard Messnarz,2006-10-13 This book constitutes the refereed proceeding of the 13th European Software Process Improvement Conference EuroSPI 2006 held in Joensuu Finland in October 2006 The 18 revised full papers presented were carefully reviewed and selected from 62 submissions *Cloud Computing* Zaigham Mahmood,2013-05-16 This book presents both state of the art research developments and practical guidance on approaches technologies and frameworks for the emerging cloud paradigm Topics and features presents the state of the art in cloud technologies infrastructures and service delivery and deployment models discusses relevant theoretical frameworks practical approaches and suggested methodologies offers guidance and best practices for the development of cloud based services and infrastructures and examines management aspects of cloud computing reviews consumer perspectives on mobile cloud computing and cloud based enterprise resource planning explores software performance testing open source cloudware support and assessment methodologies for modernization migration and pre migration describes emerging new methodologies relevant to the cloud paradigm and provides suggestions for future developments and research directions Towards Analytical Techniques for Optimizing Knowledge Acquisition, Processing, Propagation, and Use in Cyberinfrastructure and Big Data L. Octavio Lerma,Vladik Kreinovich,2017-08-19 This book describes analytical techniques for optimizing knowledge acquisition processing and propagation especially in the contexts of cyber infrastructure and big data Further it presents easy to use analytical models of knowledge related processes and their applications The need for such methods stems from the fact that when we have to decide where to place sensors or which algorithm to use for processing the data we mostly rely on experts

opinions As a result the selected knowledge related methods are often far from ideal To make better selections it is necessary to first create easy to use models of knowledge related processes This is especially important for big data where traditional numerical methods are unsuitable The book offers a valuable guide for everyone interested in big data applications students looking for an overview of related analytical techniques practitioners interested in applying optimization techniques and researchers seeking to improve and expand on these techniques

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