

Ian Warren

The Renaissance of Legacy Systems

**Method Support for
Software-System Evolution**



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Christian Wagner



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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, 1999-02-06 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-Migrationen: Aufwandsabschätzung für die Ablösung von Altsystemen Marcel Rosenberger, 2013-09 Eine Beobachtung der existierenden IT Systeme in Unternehmen zeigt dass diese häufig eine heterogene Landschaft bilden und historisch gewachsen sind Aus Kostengründen werden bestehende Systeme nicht immer rechtzeitig reformiert oder ersetzt Die Software Migration hat die Befreiung eines Systems in eine veränderte Umgebung zum Gegenstand Im Unterschied zur klassischen Neuentwicklung existiert ein System das bereits die gewünschten fachlichen

Anforderungen erfüllt Durch den schnellen technologischen Wandel ist die zu migrierende Software zu einem Altsystem geworden und hemmt Unternehmensprozesse Da die Funktionalität nicht neu entwickelt werden muss ist die Software Migration oftmals eine kostengünstigere und risikomere Alternative zur Neuentwicklung Damit beginnt das Projekt allerdings nicht auf der grünen Wiese sondern wird durch Eigenschaften des Altsystems auch negativ beeinflusst Die Durchführung der Migration erfordert Ressourcen für deren Beschaffung und Verwendung Aufwand entsteht In diesem Buch werden Typen von Migrationen unterschieden und ein Scoring Modell entwickelt dass die Aufwandsabschätzung von Migrationen ermöglicht

Service Research Challenges and Solutions for the Future Internet M. Papazoglou, Klaus Pohl, Michael Parkin, Andreas Metzger, 2010-12-15

Service 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

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

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

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 systems

2001 IEEE Symposium on Human-Centric Computing, 2001 This volume contains the conference proceedings from the 2001 Human Centric

Computing Languages and Environments **Verzeichnis lieferbarer Bücher** ,2002 Proceedings ,2001 **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 *Problemy upravlenii i informatiki* ,2003 **Forthcoming Books** Rose Arny,1999 *The Cumulative Book Index* ,1999 Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,1999 *Data Sources* ,2000 **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 *Hospitality Upgrade ,2000*

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