

Axel van Lamsweerde



Requirements Engineering

From System Goals to UML Models to Software Specifications



Axel Van Lamsweerde Requirements Engineering

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Requirements Engineering Axel van Lamsweerde, 2009-02-09 Essential comprehensive coverage of the fundamentals of requirements engineering Requirements engineering RE deals with the variety of prerequisites that must be met by a software system within an organization in order for that system to produce stellar results With that explanation in mind this must have book presents a disciplined approach to the engineering of high quality requirements Serving as a helpful introduction to the fundamental concepts and principles of requirements engineering this guide offers a comprehensive review of the aim scope and role of requirements engineering as well as best practices and flaws to avoid Shares state of the art techniques for domain analysis requirements elicitation risk analysis conflict management and more Features in depth treatment of system modeling in the specific context of engineering requirements Presents various forms of reasoning about models for requirements quality assurance Discusses the transitions from requirements to software specifications to software architecture In addition case studies are included that complement the many examples provided in the book in order to show you how the described method and techniques are applied in practical situations **Requirements Engineering**, 2009

From Object-Orientation to Formal Methods Olaf Owe, Stein Krogdahl, Tom Lyche, 2004-03-31 This book is dedicated to the memory of Ole Johan Dahl who passed away in June 2002 at the age of 70 shortly after he had received together with his colleague Kristen Nygaard the ACM Alan M Turing Award For ideas fundamental to the emergence of object oriented programming through their design of the programming languages Simula I and Simula 67 This Festschrift opens with a short biography and a bibliography recollecting Ole Johan Dahl s life and work as well as a paper he wrote entitled The Birth of Object Orientation the Simula Languages The main part of the book consists of 14 scientific articles written by leading scientists who worked with Ole Johan Dahl as students or colleagues In accordance with the scope of Ole Johan Dahl s work and the book s title the articles are centered around object orientation and formal methods **Knowledge-based Software**

Engineering Joint Conference on Knowledge-Based Software Engineering, 2012 As knowledge based software engineering matures and increasingly automates the software engineering life cycle software engineering resources are shifting towards knowledge acquisition and the automated reuse of expert knowledge for developing software artifacts This book summarizes the work and new research results presented at the Tenth Joint Conference on Knowledge based Software Engineering JCKBSE 2012 held on the island of Rhodes Greece in August 2012 The biennial Joint Conference on Knowledge Based Software Engineering brings together researchers and practitioners to share ideas on the foundations techniques tools and applications of knowledge based software engineering theory and practice Topics addressed include theoretical foundations practical techniques software tools applications and or experience reports in knowledge based software engineering This book is published in the subseries Knowledge Based Intelligent Engineering Systems KBIES **Fundamental Approaches to Software Engineering** Leen Lambers, Sebastián Uchitel, 2023-04-19 This open access book constitutes the proceedings of the

26th International Conference on Fundamental Approaches to Software Engineering FASE 2023 which was held during April 22-27 2023 in Paris France as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2023. The 12 regular papers presented in this volume were carefully reviewed and selected from 50 submissions. The proceedings also contain 2 tool papers, 2 NIER papers and 2 competition papers from the Test Comp Competition. The papers deal with the foundations on which software engineering is built including topics like software engineering as an engineering discipline, requirements engineering, software architectures, software quality, model-driven development, software processes, software evolution, AI-based software engineering and the specification, design and implementation of particular classes of systems such as self-adaptive, collaborative AI, embedded, distributed, mobile, pervasive, cyber-physical or service-oriented applications.

Design Requirements Engineering: A Ten-Year Perspective Kalle Lyytinen, Pericles Loucopoulos, John Mylopoulos, William N. Robinson, 2009-01-20. Since its inception in 1968, software engineering has undergone numerous changes. In the early years, software development was organized using the waterfall model where the focus of requirements engineering was on a frozen requirements document which formed the basis of the subsequent design and implementation process. Since then, a lot has changed: software has to be developed faster, in larger and distributed teams, for pervasive as well as large-scale applications with more flexibility and with ongoing maintenance and quick release cycles. What do these ongoing developments and changes imply for the future of requirements engineering and software design? Now is the time to rethink the role of requirements and design for software-intensive systems in transportation, life sciences, banking, e-government and other areas. Past assumptions need to be questioned; research and education need to be rethought. This book is based on the Design Requirements Workshop held June 3-6 2007 in Cleveland, OH, USA, where leading researchers met to assess the current state of affairs and define new directions. The papers included were carefully reviewed and selected to give an overview of the current state of the art as well as an outlook on probable future challenges and priorities. After a general introduction to the workshop and the related NSF-funded project, the contributions are organized in topical sections on fundamental concepts of design evolution and the fluidity of design, quality and value-based requirements, requirements intertwining and adapting requirements practices in different domains.

Designing Complex Web Information Systems: Integrating Evolutionary Process Engineering Paiano, Roberto, Guido, Anna Lisa, Pandurino, Andrea, 2009-04-30. Provides a complete view of the architectures, problems and solutions linked to the design and development of modern web information systems.

Requirements Engineering for Safety-Critical Systems Luiz Eduardo G. Martins, Tony Gorschek, 2022-09-01. Safety-Critical Systems (SCS) are increasingly present in people's daily activities. In the means of transport, in medical treatments, in industrial processes, in the control of air, land, maritime traffic and many other situations, we use and depend on SCS. The requirements engineering of any system is crucial for the proper development of the same and it becomes even more relevant for the development of SCS. Requirements Engineering is a discipline that focuses on the development of

techniques methods processes and tools that assist in the design of software and systems covering the activities of elicitation analysis modeling and specification validation and management of requirements The complete specification of system requirements establishes the basis for its architectural design It offers a description of the functional and quality aspects that should guide the implementation and system evolution In this book we discuss essential elements of requirements engineering applied to SCS such as the relationship between safety hazard analysis and requirements specification a balance between conservative and agile methodologies during SCS development the role of requirements engineering in safety cases and requirements engineering maturity model for SCS This book provides relevant insights for professionals students and researchers interested in improving the quality of the SCS development process making system requirements a solid foundation for improving the safety and security of future systems

Advanced Information Systems Engineering Oscar Pastor, João Falcão e Cunha, 2005-05-18 We can now say that it is really a big pleasure for us to welcome all of you to the proceedings of CAiSE 2005 which was held in Porto

Requirements Targeting Software and Systems Engineering Manfred Broy, Bernhard Rumpe, 2005-06-30 This book constitutes the strictly refereed post workshop proceedings of the International Workshop on Requirements Targeting Software and Systems Engineering RTSE 97 held in Bernried Germany in October 1997 The 15 revised full papers presented in the book were carefully revised and reviewed for inclusion in the book Among the authors are internationally leading researchers The book is divided in sections on foundations of software engineering methodology evaluation and case studies and tool support and prototyping

Information Modelling and Knowledge Bases XVI Yasushi Kiyoki, Y. Kiyoki, Benkt Wangler, Hannu Jaakkola, Hannu Kangassalo, 2005 Modelling of information is necessary in developing information systems Information is acquired from many sources by using various methods and tools It must be recognized conceptualized and conceptually organized efficiently so that users can easily understand and use it Modelling is needed to understand explain organize predict and reason on information It also helps to master the role and functions of components of information systems Modelling can be performed with many different purposes in mind at different levels and by using different notions and different background theories It can be made by emphasizing users conceptual understanding of information on a domain level on an algorithmic level or on representation levels On each level the objects and structures used on them are different and different rules govern the behavior on them Therefore the notions rules theories languages and methods for modelling on different levels are also different It will be useful if we can develop theories and methodologies for modelling to be used in different situations because databases knowledge bases and repositories in knowledge management systems developed on the basis of models and used to technically store information are growing day by day In this publication the interest is focused on modelling of information and one of the central topics is modelling of time Scientific and technical papers of high quality are brought together in this book

Requirements Engineering: Foundation for Software Quality Martin Glinz, Patrick

Heymans,2009-06-06 This book constitutes the refereed proceedings of the 15th International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2009 held in Amsterdam The Netherlands in June 2009 The 14 revised full papers were carefully reviewed and selected from 49 submissions The papers are organized in thematic sections on value and risk change and evolution interactions and inconsistencies organization and structuring experience elicitation research methods behavior modeling empirical studies and open source RE **Radical Innovations of Software and Systems Engineering in the Future** Martin Wirsing,2004-03-18 This book constitutes the thoroughly refereed post proceedings of the 9th International Workshop on Radical Innovations of Software and Systems Engineering in the Future RISSEF 2002 held in Venice Italy in October 2002 The 24 revised full papers presented were carefully reviewed and selected from the 36 invited workshop presentations The authors evaluate all major paradigms and conceptual issues in software and systems design and analysis especially regarding their potential for modifications to cope with future needs Software Architecture: System Design, Development and Maintenance Jan Bosch,Morven Gentleman,Christine Hofmeister,Juha Kuusela,2013-06-29 For more and more systems software has moved from a peripheral to a central role replacing mechanical parts and hardware and giving the product a competitive edge Consequences of this trend are an increase in the size of software systems the variability in software artifacts and the importance of software in achieving the system level properties Software architecture provides the necessary abstractions for managing the resulting complexity We here introduce the Third Working IEEE/IFIP Conference on Software Architecture WICSA3 That it is already the third such conference is in itself a clear indication that software architecture continues to be an important topic in industrial software development and in software engineering research However becoming an established field does not mean that software architecture provides less opportunity for innovation and new directions On the contrary one can identify a number of interesting trends within software architecture research The first trend is that the role of the software architecture in all phases of software development is more explicitly recognized Whereas initially software architecture was primarily associated with the architecture design phase we now see that the software architecture is treated explicitly during development product derivation in software product lines at run time and during system evolution Software architecture as an artifact has been decoupled from a particular lifecycle phase **Software Architecture** Jan Bosch,Morven Gentleman,Christine Hofmeister,Juha Kuusela,2002-07-31 For more and more systems software has moved from a peripheral to a central role replacing mechanical parts and hardware and giving the product a competitive edge Consequences of this trend are an increase in the size of software systems the variability in software artifacts and the importance of software in achieving the system level properties Software architecture provides the necessary abstractions for managing the resulting complexity We here introduce the Third Working IEEE/IFIP Conference on Software Architecture WICSA3 That it is already the third such conference is in itself a clear indication that software architecture continues to be an important topic in industrial software

development and in software engineering research However becoming an established field does not mean that software architecture provides less opportunity for innovation and new directions On the contrary one can identify a number of interesting trends within software architecture research The first trend is that the role of the software architecture in all phases of software development is more explicitly recognized Whereas initially software architecture was primarily associated with the architecture design phase we now see that the software architecture is treated explicitly during development product derivation in software product lines at run time and during system evolution Software architecture as an artifact has been decoupled from a particular lifecycle phase

Formal Methods for Software Architectures Marco Bernardo, 2003-09-12 In the past ten years or so software architecture has emerged as a central notion in the development of complex software systems Software architecture is now accepted in the software engineering research and development community as a manageable and meaningful abstraction of the system under development and is applied throughout the software development life cycle from requirements analysis and validation to design and down to code and execution level This book presents the tutorial lectures given by leading authorities at the Third International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2003 held in Bertinoro Italy in September 2003 The book is ideally suited for advanced courses on software architecture as well as for ongoing education of software engineers using formal methods in their day to day professional work

Mastering the Requirements Process James Robertson, Suzanne Robertson, Adrian Reed, 2024-09-25 One of the joys of product development whether it be software service or hardware is getting it right The way to get it right is to uncover the real business problem and to write the requirements for the solution that best solves that problem Without the right requirements it is impossible to build the right solution Mastering the Requirements Process Fourth Edition gives you an industry proven process for getting to the essence of the business problem and then writing unambiguous and testable requirements for its solution This fourth edition is an almost complete rewrite that brings requirements discovery into today's world it is the book for today's business analyst Product owners and project leaders will also find it valuable as it explains how to discover precisely what the customer needs and wants and to do it effectively in any business or project environment The book tells you how to Use the Volere requirements process to discover requirements in both traditional and agile environments Incorporate off the shelf OTS solutions into your requirements discovery Use artificial intelligence AI as part of your requirements discovery and as part of your business solution Use quickly sketched prototypes to explore the problem space Understand functional and non functional requirements Write better agile stories Make your requirements and stories measurable and testable using fit criteria Use business events as the heartbeat of business analysis Discover requirements in agile commercial and milspec project environments Find and prioritize your customer segments Leverage systems thinking when discovering requirements Use story maps and other requirements repository techniques Know which trawling techniques are the most effective for

requirements discovery Synchronize your requirements discovery with agile development teams Make better decisions in the early days of a project to increase your chances of success Employ the Volere requirements specification template downloaded 10 000 times as the basis for your own requirement specifications One of the most valuable things about this book is that it provides a process to follow that will get people asking the right questions and expand their perspective on the problem Kevin Brennan Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

On the Foundations of Dynamic Coalitions Arbach, Youssef, 2016-09-16 Dynamic Coalitions denote a temporary collaboration between different entities to achieve a common goal A key feature that distinguishes Dynamic Coalitions from static coalitions is Dynamic Membership where new members can join and others can leave after a coalition is set This thesis studies workflows in Dynamic Coalitions by analyzing their features highlighting their unique characteristics and similarities to other workflows and investigating their relation with Dynamic Membership For this purpose we use the formal model of Event Structures and extend it to faithfully model scenarios taken as use cases from healthcare Event Structures allow for workflows modeling in general and for modeling Dynamic Membership in Dynamic Coalitions as well through capturing the join and leave events of members To this end we first extend Event Structures with Dynamic Causality to address the dynamic nature of DCs Dynamic Causality allows some events to change the causal dependencies of other events in a structure Then we study the expressive power of the resulting Event Structures and show that they contribute only to a specific kind of changes in workflows namely the pre planned changes Second we present Evolving Structures in order to support ad hoc and unforeseen changes in workflows as required by the use cases Evolving Structures connect different Event Structures with an evolution relation which allows for changing an Event Structure during a system run We consider different approaches to model evolution and study their equivalences Furthermore we show that the history of a workflow should be preserved in our case of evolution in Dynamic Coalitions and we allow for extracting changes from an evolution to support Process Learning Third to capture the goals of DCs we equip Evolving Structures with constraints concerning the reachability of a set of events that represents a goal The former extensions allow for examining the changes and evolutions caused by members and examining members contributions to goal satisfaction through their join and leave events Finally we highlight many modeling features posed as requirements by the domain of our Dynamic Coalition use cases namely the healthcare which are independent from the nature of Dynamic Coalitions e g timing We examine the literature of Event Structures for supporting such features and we identify that the notion of Priority is missing in Event Structures To this end we add Priority to various kinds of Event Structures from the literature Furthermore we study the relation between priority on one side and conjunctive causality disjunctive causality causal ambiguity and various kinds of conflict on the other side Comparing to Adaptive Workflows which are concerned with evolutions of workflows that occur as a response to changes e g changes in the business environment or exceptions this thesis shows that Dynamic Coalition

workflows are not only Adaptive but also Goal Oriented Besides it adds one extra trigger for evolution in workflows unique to Dynamic Coalitions namely the join of new members who contribute to goal satisfaction in a Dynamic Coalition Finally the thesis contributes to bridging the gap in modeling between theory and domain experts by supporting step by step modeling applied regularly in healthcare and other domains

Dynamische Koalitionen DKen bezeichnen eine temporäre Kollaboration zwischen verschiedenen Entitäten zum Erreichen eines gemeinsamen Ziels Ein Schlüsselaspekt welcher dynamische Koalitionen von statischen Koalitionen unterscheidet ist die dynamische Mitgliedschaft durch die neue Mitglieder hinzukommen und andere die Koalitionen verlassen können nachdem sie entstanden ist Diese Arbeit studiert Workflows in dynamische Koalitionen durch eine Analyse ihrer Eigenschaften das Herausstellen ihrer einzigartigen Charakteristika und Ähnlichkeiten zu anderen Workflows und durch eine Untersuchung ihrer Beziehung zu dynamischer Mitgliedschaft In diesem Sinne nutzen wir das formale Modell der Ereignisstrukturen ESEN und erweitern es um Fallstudien aus der Medizin angemessen zu modellieren ESEN erlauben sowohl eine generelle Workflow Modellierung als auch eine Darstellung von Eintritt und Austrittereignissen von Mitgliedern Zu diesem Zweck erweitern wir ESEN zuerst um Dynamische Kausalität um die dynamische Natur von DKen abzubilden Dynamische Kausalität erlaubt bestimmten Ereignissen die kausalen Abhängigkeiten anderer Ereignissen in einer Struktur zu verordnen Dann untersuchen wir die Ausdrucksstärke der resultierenden ESEN und zeigen dass sie nur eine spezifische Art der Veränderung abbilden die sogenannten vorgeplanten Veränderungen Als Zweites präsentieren wir Evolving in ESEN um ad hoc und unvorhergesehene Veränderungen zu unterstützen wie es durch unsere Fallstudien benannt wird Evolving in ESEN verbinden verschiedene ESEN mit einer Relation welche eine Veränderung einer ESEN während eines Ablaufes erlaubt Wir ziehen verschiedene Ansätze der Modellevolution in Betracht und untersuchen ihre Äquivalenzen Des Weiteren zeigen wir dass in unserem Fall der Evolution in DKen die Geschichte eines Workflows erhalten bleiben muss und wir ermöglichen das Extrahieren von Veränderungen einer Evolution um Process Learning zu unterstützen Drittens Um die Ziele von DKen abzubilden fügen wir den Evolving in ESEN mit Einschränkungen bezüglich der Erreichbarkeit einer Menge von Ereignissen hinzu welche das Ziel repräsentieren Die genannten Erweiterungen erlauben es sowohl die Veränderungen und Evolutionen die vom Mitgliedern verursacht werden als auch die Beiträge der Mitglieder zur Zielerreichung durch deren Eintritt und Austrittereignissen zu untersuchen Schlussendlich stellen wir viele Modellierungseigenschaften dar welche von den DK Fallstudien aus der Medizin benannt werden und unabhängig von der Natur der DKen sind wie z.B. Timing Wir untersuchen die Literatur zu ESEN bezüglich Unterstützung für solche Eigenschaften und stellen fest dass der Begriff Priorität in ESEN fehlt Daher fügen wir Priorität zu verschiedenen ESEN aus der Literatur hinzu Des Weiteren untersuchen wir die Beziehungen von Priorität auf zu Konjunktiver Kausalität disjunktiver Kausalität kausal Uneindeutigkeit und verschiedenen Formen von Konflikt Im Vergleich zu Adaptive Workflows welche sich mit der Evolution von Workflows beschäftigt die als Reaktion auf Veränderungen entsteht wie z.B. Veränderungen im Business

Environment oder Exceptions zeigt diese Arbeit das DKen nicht nur adaptiv sondern auch zielorientiert sind Außerdem fgt sie einen zusätzlichen Auslöser für Evolution in Workflows hinzu welcher ausschließlich DKen eigen ist das Hinzukommen neuer Mitglieder welche zur Zielerreichung der DK beitragen Zuletzt trägt diese Arbeit bei die Lücke der Modellierung zwischen der Theorie und den Domänenexperten zu überbrücken in dem sie eine Schritt für Schritt Modellierung unterstützt welche regelmäßig in der Medizin und anderen Bereichen angewandt wird

Non-Functional Requirements in Software

Engineering Lawrence Chung, Brian A. Nixon, Eric Yu, John Mylopoulos, 2012-12-06 Non Functional Requirements in Software Engineering presents a systematic and pragmatic approach to building quality into software systems Systems must exhibit software quality attributes such as accuracy performance security and modifiability However such non functional requirements NFRs are difficult to address in many projects even though there are many techniques to meet functional requirements in order to provide desired functionality This is particularly true since the NFRs for each system typically interact with each other have a broad impact on the system and may be subjective To enable developers to systematically deal with a system's diverse NFRs this book presents the NFR Framework Structured graphical facilities are offered for stating NFRs and managing them by refining and interrelating NFRs justifying decisions and determining their impact Since NFRs might not be absolutely achieved they may simply be satisfied sufficiently satisfied To reflect this NFRs are represented as softgoals whose interdependencies such as tradeoffs and synergy are captured in graphs The impact of decisions is qualitatively propagated through the graph to determine how well a chosen target system satisfies its NFRs Throughout development developers direct the process using their expertise while being aided by catalogues of knowledge about NFRs development techniques and tradeoffs which can all be explored reused and customized Non Functional Requirements in Software Engineering demonstrates the applicability of the NFR Framework to a variety of NFRs domains system characteristics and application areas This will help readers apply the Framework to NFRs and domains of particular interest to them Detailed treatments of particular NFRs accuracy security and performance requirements along with treatments of NFRs for information systems are presented as specializations of the NFR Framework Case studies of NFRs for a variety of information systems include credit card and administrative systems The use of the Framework for particular application areas is illustrated for software architecture as well as enterprise modelling Feedback from domain experts in industry and government provides an initial evaluation of the Framework and some case studies Drawing on research results from several theses and refereed papers this book's presentation terminology and graphical notation have been integrated and illustrated with many figures Non Functional Requirements in Software Engineering is an excellent resource for software engineering practitioners researchers and students

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