Boris Shishkov

Designing Enterprise Information Systems

Merging Enterprise Modeling and Software Specification

Book Software Systems Specification Modeling Engineering

Claude Girault,Rüdiger Valk

Book Software Systems Specification Modeling Engineering:

Specification of Software Systems V.S. Alagar,K. Periyasamy,2013-03-14 This is a textbook on software specification emphasizing formal methods that are relevant to requirements and design stages of software development The aim of the book is to teach the fundamental principles of formal methods in the construction of modular and verifiable formal specifications The book introduces several formal specification techniques and illustrates the expressive power of each technique with a number of examples General Characteristics Traditional textbooks on software engineering discuss the difficulties and chal lenges that lie on the path from requirements analysis to implementation of a software product Most of these books describe some techniques in detail and give hints on implementation of these techniques Only a few among them deal with important software engineering principles and techniques and discuss how a particular technique may be used to implement a given principle There is very little exposure in these books to a rigorous approach to or a systematic study of the construction of verifiable software Those who have acquired an understanding of the fundamental principles of software engineering from traditional textbooks will find the following characteristics of this book quite relevant to the practice of software engineering The book deals with specification The principal characteristic of this book is to discuss formalisms that provide a theoretical foundation for the principles of software engineering and are appropriate to the requirements and design stages of software development   Software Systems Specification and Modeling John Mathenge Kanyaru,2013-02-15 Drawing on the author s industrial experience in software development this book explores system specification and validation It describes the discipline of software requirements engineering along with issues to consider when choosing a specification technique or notation It covers the differences between requirements analysis and construction specification and explains methods for translating specifications into designs The text also describes different approaches to software specification including visual and textual methods It offers many illustrative examples to reinforce concepts and provide clarity PowerPoint slides and solutions manual are available upon qualified course adoption

Software Engineer's Reference Book John A McDermid,2013-10-22 Software Engineer s Reference Book provides the fundamental principles and general approaches contemporary information and applications for developing the software of computer systems The book is comprised of three main parts an epilogue and a comprehensive index The first part covers the theory of computer science and relevant mathematics Topics under this section include logic set theory Turing machines theory of computation and computational complexity Part II is a discussion of software development methods techniques and technology primarily based around a conventional view of the software life cycle Topics discussed include methods such as CORE SSADM and SREM and formal methods including VDM and Z Attention is also given to other technical activities in the life cycle including testing and prototyping The final part describes the techniques and standards which are relevant in producing particular classes of application The text will be of great use to software engineers software project managers and

students of computer science   Model-Driven Dependability Assessment of Software Systems Simona Bernardi,José Merseguer,Dorina Corina Petriu,2013-10-22 Over the last two decades a major challenge for researchers working on modeling and evaluation of computer based systems has been the assessment of system Non Functional Properties NFP such as performance scalability dependability and security In this book the authors present cutting edge model driven techniques for modeling and analysis of software dependability Most of them are based on the use of UML as software specification language From the software system specification point of view such techniques exploit the standard extension mechanisms of UML i e UML profiling UML profiles enable software engineers to add non functional properties to the software model in addition to the functional ones The authors detail the state of the art on UML profile proposals for dependability specification and rigorously describe the trade off they accomplish The focus is mainly on RAMS reliability availability maintainability and safety properties Among the existing profiles they emphasize the DAM Dependability Analysis and Modeling profile which attempts to unify under a common umbrella the previous UML profiles from literature providing capabilities for dependability specification and analysis In addition they describe two prominent model to model transformation techniques which support the generation of the analysis model and allow for further assessment of different RAMS properties Case studies from different domains are also presented in order to provide practitioners with examples of how to apply the aforementioned techniques Researchers and students will learn basic dependability concepts and how to model them using UML and its extensions They will also gain insights into dependability analysis techniques through the use of appropriate modeling formalisms as well as of model to model transformation techniques for deriving dependability analysis models from UML specifications Moreover software practitioners will find a unified framework for the specification of dependability requirements and properties of UML and will benefit from the detailed case studies   Emerging Technologies for the Evolution and Maintenance of Software Models Rech, Jörg,2011-12-31 Model driven software development drastically alters the software development process which is characterized by a high degree of innovation and productivity Emerging Technologies for the Evolution and Maintenance of Software Models contains original academic work about current research and research projects related to all aspects affecting the maintenance evolution and reengineering MER as well as long term management of software models The mission of this book is to present a comprehensive and central overview of new and emerging trends in software model research and to provide concrete results from ongoing developments in the field

Specification of Software Systems V.S. Alagar,K. Periyasamy,2011-03-19 This extensively revised and updated new edition of Specification of Software Systems builds upon the original focus on software specification with added emphasis on the practice of formal methods for specification and verification activities for different types of software systems and at different stages of developing software systems Topics and features provides a wide coverage of formal specification techniques and a clear writing style supported by end of chapter bibliographic notes for further reading presents a logical

structure with sections devoted to specification fundamentals basics of formalism logic set theory and relations property oriented specification methods and model based specification techniques contains end of chapter exercises and numerous case studies with potential course outlines suggested in the Preface covers Object Z B Method and Calculus of Communicating Systems offers material that can be taught with tool supported laboratory projects **Dependable Software Systems Engineering** A. Pretschner,D. Peled,T. Hutzelmann,2017-10-24 Cyber physical systems closely combine and coordinate subsystems consisting of both computational and physical elements Such systems have become indispensable in the fields of aerospace automotive and the automation industries as well as in consumer appliances Safety security and reliability are all essential elements of the trustworthiness of these modern cyber physical systems Protecting the data within such systems from external attack security and protecting the environment from any potential malfunction or misuse of these systems safety are subjects traditionally considered separately but a closer look reveals that techniques for the construction and analysis of the software based systems used in both security and safety are not necessarily fundamentally different This book presents t papers from the 2016 Marktoberdorf summer school on software engineering held in Marktoberdorf Germany in August 2016 As its title Dependable Software Systems Engineering suggests the lectures at this summer school explored various aspects of the engineering of more dependable software systems and the 10 lectures included here cover subjects from programming languages and formal analysis tools to verification validation and assurance The book will be of interest to all those whose work involves the development and testing of more reliable and secure software systems **Systems Modeling & Requirements Specification Using ECSAM** Jonah Z. Lavi,Joseph Kudish,2005 Partial ContentsPart 1 Conceptual Modeling and Analysis of Systems the External ViewIntroductionThe System s Context DiagramThe Environmental Modes and StatechartsThe E System CapabilitiesThe E System ProcessesThe Integrated Conceptual E System ModelOperational ScenariosPart 2 Conceptual Modeling of Systems the Internal ViewConcepts of White Box ModelingObject Based System DecompositionAnalysis of Internal Information Flows and Subsystem ActivitiesInternal System Modes S modes Internal System Processes S processes Transition to DesignPart 3 Requirements Engineering An OverviewThe Stakeholders Requirements ProcessModel Driven Refinement of RequirementsRequirements ManagementAppendices Five Sample ProjectsIntegrated Automatic Teller MachineGo Anywhere Universal Personal CommunicatorChariot a Smart Mobile Chair for the DisabledAutomated Parking Facility Control and Billing SystemSARAH a Search and Rescue Automatic HelicopterSummary of NotationGlossaryBibliographyIndex   Software Requirements Engineering Sidney C. Bailin,1997-03-13 Introduction to tutorial software requirements engineering Introductions issues and terminology System and software systems engineering Software requirements analysis and specifications Software requirements methodologies and tools Requirements and quality management Software system engineering process models Appendix Author s biographies t   **Petri Nets for Systems Engineering** Claude Girault,Rüdiger Valk,2003 Using formal methods for the

specification and verification of hardware and software systems is becoming increasingly important as systems increase in size and complexity The aim of the book is to illustrate progress in formal methods based on Petri net formalisms It presents both practical and theoretical foundations for the use of Petri nets in complex system engineering tasks In doing so it bridges the gap between Petri nets and the systems modeling and implementation process It contains a collection of examples arising from different fields such as flexible manufacturing telecommunication and workflow management systems

Specification and Design of Software Systems Elod Knuth,E. J. Neuhold,2014-01-15 *Global Specification and Validation of Embedded Systems* G. Nicolescu,Ahmed A. Jerraya,2007-07-07 Global Specification and Validation of Embedded Systems offers a deep understanding of concepts and practices behind the composition of heterogeneous components After the analysis of existing computation and execution models used for the specification and validation of different sub systems the book introduces a systematic approach to build an execution model for systems composed of heterogeneous components Mixed continuous discrete and hardware software systems will be used to illustrate these concepts The benefit of reading this book is to give a clear vision on the theory and practice of specification and validation of complex modern systems The examples give to the designers solutions applicable in their daily practice **System Requirements Analysis** Jeffrey O. Grady,2010-07-19 Systems Requirement Analysis gives the professional systems engineer the tools to set up a proper and effective analysis of the resources schedules and parts that will be needed in order to successfully undertake and complete any large complex project The text offers the reader the methodology for rationally breaking a large project down into a series of stepwise questions so that a schedule can be determined and a plan can be established for what needs to be procured how it should be obtained and what the likely costs in dollars manpower and equipment will be in order to complete the project at hand Systems Requirement Analysis is compatible with the full range of engineering management tools now popularly used from project management to competitive engineering to Six Sigma and will ensure that a project gets off to a good start before it s too late to make critical planning changes The book can be used for either self instruction or in the classroom offering a wealth of detail about the advantages of requirements analysis to the individual reader or the student group Author is the recognized authority on the subject of Systems Engineering and was a founding member of the International Council on Systems Engineering INCOSE Defines an engineering system and how it must be broken down into a series of process steps beginning with a definition of the problems to be solved Complete overview of the basic principles involved in setting up a systems requirements analysis program including how to set up the initial specifications that define the problems and parameters of an engineering program Covers various analytical approaches to systems requirements including structural and functional analysis budget calculations and risk analysis Advanced Information Systems Engineering Gerard M. Wijers,Sjaak Brinkkemper,Anthony I. Wasserman,1994 This volume presents the proceedings of the sixth International Conference on Advanced Information Systems Engineering held in Utrecht The Netherlands in June 1994

The 30 contributions by researchers from industry and academia and by ambitioned professionals were selected from a total of 130 submissions after a highly competetive refereering process The papers are organized in sections on development process support workflow management management and quality object oriented requirements engineering behavioural modelling advanced development tools reuse formal IS modelling method engineering and advanced database engineering In total the volume gives a thorough state of the art report on current research and advanced applications in advanced information systems engineering PUBLISHER S WEBSITE Software Specification and Design John C. Munson, Ph.D.,2005-09-26 The rigors of engineering must soon be applied to the software development process or the complexities of new systems will initiate the collapse of companies that attempt to produce them Software Specification and Design An Engineering Approach offers a foundation for rigorously engineered software It provides a clear vision of what occurs at each stage of development parsing the stages of specification design and coding into compartments that can be more easily analyzed Formalizing the concepts of specification traceability witnessed at the software organizations of Rockwell IBM FSD and NASA the author proposes a strategy for software development that emphasizes measurement He promotes the measurement of every aspect of the software environment from initial testing through test activity and deployment operation This book details the path to effective software and design It recognizes that each project is different with its own set of problems so it does not propose a specific model Instead it establishes a foundation for the discipline of software engineering that is both theoretically rigorous and relevant to the real world engineering environment **Electrical Engin Hdbk The** Richard C. Dorf,1993-04-03 A comprehensive source of electrical engineering information this text features a complete section devoted to key mathematical formulae concepts definitions and derivatives It also provides complete descriptions of select US and international professional and academic societies **Advanced Information Systems Engineering** ,1994

  Applied Simulation and System Dynamics ,1991 **System Requirements Engineering** Pericles Loucopoulos,Vassilios Karakostas,1995 System Requirements Engineering presents a balanced view of the issues concepts models techniques and tools found in requirements engineering research and practice Requirements engineering is presented from business behavioural and software engineering perspectives and a general framework is established at the outset This book considers requirements engineering as a combination of three concurrent and interacting processes eliciting knowledge related to a problem domain ensuring the validity of such knowledge and specifying the problem in a formal way Particular emphasis is given to requirements elicitation techniques and there is a fully integrated treatment of the development of requirements specifications through enterprise modelling functional requirements and non functional requirements **ZUM ... the Z Formal Specification Notation** ,1997

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