

Software Requirement Specifications



Specification Of Software Systems

David J. Harper, Moira C. Norrie



Specification Of Software Systems:

Specification of Software Systems Vangalur S. Alagar,K. Periyasamy,1998 This book provides an introduction to program specification illustrating the advantages it confers upon the software development process Covering all three major specification languages Larch VDM and Z the book discusses specification in general the abstraction process the mathematical tools required the main formal methods as well as examples of their use 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 challenges 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

Specification and Design of Software Systems Elod Knuth,E. J. Neuhold,2014-01-15 **Algebraic Foundations of Systems Specification** Egidio Astesiano,Hans-Jörg Kreowski,Bernd Krieg-Brückner,2012-12-06 The aim of software engineering is the provision and investigation of methods for the development of software systems of high quality with correctness as a key issue A system is called correct if it does what one wants if it meets the requirements To achieve and to guarantee correct systems the need of formal methods with rigorous semantics and the possibility of verification is widely accepted Algebraic specification is a software engineering approach of this perspective When Liskov and Zilles Guttag and the ADJ group with Goguen Thatcher Wagner and Wright introduced the basic ideas of algebraic specification in the mid seventies in the U S A and Canada they initiated a very successful and still flourishing new area In the late seventies algebraic specification became a major research topic also in many European countries Originally the algebraic framework was intended for the mathematical foundation of abstract data types and the formal development of first order applicative programs Meanwhile the range of applications has been extended to the precise specification of complete software systems the uniform definition of syntax and semantics of programming languages and to the stepwise development of correct

systems from the requirement definitions to the running programs The activities in the last 25 years have led to an abundance of concepts methods approaches theories languages and tools which are mathematically founded in universal algebra category theory and logic

Specification of Software Systems V. S. Alagar, 2014-01-15

Advancing Practical Specification Techniques for Modern Software Systems John L. Singleton, 2018

The pervasive nature of software and the tendency for it to contain errors has long been a concern of theoretical computer scientists Many investigators have endeavored to produce theories tools and techniques for verifying the behavior of software systems One of the most promising lines of research is that of formal specification which is a subset of the larger field of formal methods In formal specification one composes a precise mathematical description of a software system and uses tools and techniques to ensure that the software that has been written conforms to this specification Examples of such systems are Z notation the Java Modeling Language and many others However a fundamental problem that plagues this line of research is that the specifications themselves are often costly to produce and difficult to reuse If the field of formal specification is to advance we must develop sound techniques for reducing the cost of producing and reusing software specifications The work presented in this dissertation lays out a path to producing sophisticated automated tools for inferring large complex code bases tools for allowing engineers to share and reuse specifications and specification languages for specifying information flow policies that can be written separately from program code This dissertation introduces three main lines of research First I discuss a system that facilitates the authoring sharing and reuse of software specifications Next I discuss a technique which aims to reduce the cost of producing specifications by automatically inferring them Finally I discuss a specification language called Evidently which aims to make information flow security policies easier to write maintain and enforce by untangling them from the code to which they are applied

High-Integrity System Specification and Design Jonathan P. Bowen, Michael G. Hinchey, 2012-12-06

Errata detected in Taylor's Logarithms London 4to 1792 sic 14 18 3 6 Kk Co sine of 3398 3298 Nautical Almanac 1832 In the list of ERRATA detected in Taylor's Logarithms for cos 4 18 3 read cos 14 18 2 Nautical Almanac 1833 ERRATUM of the ERRATUM of the ERRATA of TAYLOR'S Logarithms For cos 4 18 3 read cos 14 18 3 Nautical Almanac 1836 In the 1820s an Englishman named Charles Babbage designed and partly built a calculating machine originally intended for use in deriving and printing logarithmic and other tables used in the shipping industry At that time such tables were often inaccurate copied carelessly and had been instrumental in causing a number of maritime disasters Babbage's machine called a Difference Engine because it performed its calculations using the principle of partial differences was intended to substantially reduce the number of errors made by humans calculating the tables Babbage had also designed but never built a forerunner of the modern printer which would also reduce the number of errors admitted during the transcription of the results Nowadays a system implemented to perform the function of Babbage's engine would be classed as safety critical That is the failure of the system to produce correct results could result in the loss of human life mass

destruction of property in the form of ships and cargo as well as financial losses and loss of competitive advantage for the shipping firm

Engineering Trustworthy Software Systems Jonathan P. Bowen, Zhiming Liu, Zili Zhang, 2020-07-31 This book constitutes the refereed proceedings of the 5th International School on Engineering Trustworthy Software Systems SETSS 2019 held in Chongqing China in April 2019 The five chapters in this volume provide lectures on leading edge research in methods and tools for use in computer system engineering The topics covered in these chapter include Seamless Model based System Development Foundations From Bounded Reachability Analysis of Linear Hybrid Automata to Verification of Industrial CPS and IoT Weakest Preexpectation Semantics for Bayesian Inference Conditioning Continuous Distributions and Divergence K A Semantic Framework for Programming Languages and Formal Analysis Tools and Software Abstractions and Human Cyber Physical Systems Architecture Modelling

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

Specifications of Database Systems David J. Harper, Moira C. Norrie, 2013-03-09 Increasingly formal specification is being used by database researchers to describe and understand the systems they are designing and implementing Similarly those working on formal specification techniques have recognised that the database field provides a rich context for developing their ideas However as experts in one field often have a relatively limited knowledge of the other there is a growing need for discussion about the relationship between these two fields and how they can be usefully combined This volume contains the 16 papers which were presented at the International Workshop on Specification on Database Systems held in Glasgow 3 5 July 1991 The purpose of the workshop was to bring together these fields and to examine through a series of invited talks presentations and working groups the role that formal specification can play in developing database systems The papers describe current research into topics such as the formal specification of data models query languages and transaction handling and the use of formal specification techniques to understand problems which arise in database systems The working groups which are summarised at the end of the volume covered a variety of issues including the role of graphical notations in database specification the use of specification techniques in enabling open or extensible database systems and the education of the database community in specification techniques This volume will be invaluable to the increasing number of researchers who are using both database systems and formal specification techniques in their work and who wish to gain a more detailed knowledge of these two fields and the issues which affect them

Languages for System Specification Christoph Grimm, 2007-05-08 Contributions on UML address the application of UML in the specification of embedded HW SW systems C Based System Design embraces the modeling of operating systems modeling with different models of computation generation of test patterns and experiences from case studies with SystemC Analog and Mixed Signal Systems covers rules for solving general modeling problems in VHDL AMS modeling of multi nature systems synthesis and modeling of Mixed Signal Systems with SystemC Languages for formal methods are addressed by contributions on formal specification and refinement of hybrid embedded and real time stems Together with articles on new languages such as SystemVerilog and Software Engineering in Automotive Systems the contributions selected for this book embrace all aspects of languages and models for specification design modeling and verification of systems Therefore the book gives an excellent overview of the actual state of the art and the latest research results

Specification for Visual Requirements of Work-Centered Software Systems, 2006 Work centered software systems function as inherent work aiding systems Based on the design concept for a work centered support system WCSS these software systems support user tasks and goals through both direct and indirect aiding methods within the interface client In order to ensure the coherent development and delivery of work centered software products WCSS visual requirements must be specified to capture the cognitive aspects of the user interface design A work centered specification language based on the User Interface Markup Language UIML is an effective solution to bridging this gap between cognitive systems engineering and software engineering A visual requirements specification language can capture and describe work centered visual requirements within a semi formal syntax The proposed language can also be easily integrated into a UML object model via the use of UML s extensibility features A specification language for visual requirements could be employed by cognitive engineers and design teams to help convey requirements in a comprehensible format that is suitable for a software engineer Such a solution provides coherency in the software modeling process of developing work centered software systems

Software Specification and Design Ph.D., John C. Munson, 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 e

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher

Fundamentals of Algebraic Specification 2 Hartmut Ehrig, Bernd Mahr, 2012-12-06 Since the early seventies concepts of specification have become central in the whole area of computer science Especially algebraic specification techniques for abstract data types and software systems have gained considerable importance in recent years

They have not only played a central role in the theory of data type specification but meanwhile have had a remarkable influence on programming language design system architectures and software tools and environments The fundamentals of algebraic specification lay a basis for teaching research and development in all those fields of computer science where algebraic techniques are the subject or are used with advantage on a conceptual level Such a basis however we do not regard to be a synopsis of all the different approaches and achievements but rather a consistently developed theory Such a theory should mainly emphasize elaboration of basic concepts from one point of view and in a rigorous way reach the state of the art in the field We understand fundamentals in this context as 1 Fundamentals in the sense of a carefully motivated introduction to algebraic specification which is understandable for computer scientists and mathematicians 2 Fundamentals in the sense of mathematical theories which are the basis for precise definitions constructions results and correctness proofs 3

Fundamentals in the sense of concepts from computer science which are introduced on a conceptual level and formalized in mathematical terms **The Information System Consultant's Handbook** William S. Davis, David C. Yen, 2019-04-30 The Information System Consultant's Handbook familiarizes systems analysts systems designers and information systems consultants with underlying principles specific documentation and methodologies Corresponding to the primary stages in the systems development life cycle the book divides into eight sections Principles Information Gathering and Problem Definition Project Planning and Project Management Systems Analysis Identifying Alternatives Component Design Testing and Implementation Operation and Maintenance Eighty two chapters comprise the book and each chapter covers a single tool technique set of principles or methodology The clear concise narrative supplemented with numerous illustrations and diagrams makes the material accessible for readers effectively outlining new and unfamiliar analysis and design topics

Specs2 Essentials: Practical Testing and Specification for Scala William E Clark, 2025-08-24 Specs2 Essentials Practical Testing and Specification for Scala is a concise practical guide to specification driven testing in the Scala ecosystem It opens with core concepts and the theoretical foundations of executable specifications illuminates how Scala's expressive type system and Specs2's modular design enable clear maintainable tests and situates Specs2 among other popular testing libraries through real world adoption examples and continuous integration strategies relevant to both greenfield and established projects The book delivers hands on guidance for everyday use and advanced scenarios alike seamless build and CI integration dynamic configuration and patterns for writing elegant reusable specifications Coverage includes strategies for scaling suites parallel execution and test partitioning cross platform targets Scala.js and Scala Native multiple specification styles property based and data driven testing expressive matchers and robust handling of concurrency and asynchronous behavior plus techniques to produce living documentation that communicates with technical and nontechnical stakeholders Beyond practical recipes Specs2 Essentials explores isolation and mocking patterns native and third party resource and integration test management and extensibility through custom plugins test runners and metadata driven

execution It concludes with instrumentation for traceability maintainability practices to keep test suites healthy and governance approaches for compliance equipping engineers architects and quality leads to build reliable Scala systems using modern executable specification techniques

Handbook of Smart Energy Systems Michel Fathi, Enrico Zio, Panos M. Pardalos, 2023-08-04 This handbook analyzes and develops methods and models to optimize solutions for energy access for industry and the general world population alike in terms of reliability and sustainability With a focus on improving the performance of energy systems it brings together state of the art research on reliability enhancement intelligent development simulation and optimization as well as sustainable development of energy systems It helps energy stakeholders and professionals learn the methodologies needed to improve the reliability of energy supply and demand systems achieve more efficient long term operations deal with uncertainties in energy systems and reduce energy emissions Highlighting novel models and their applications from leading experts in this important area this book will appeal to researchers students and engineers in the various domains of smart energy systems and encourage them to pursue research and development in this exciting and highly relevant field

Computer Fundamentals DP Nagpal, 2008 Today computer has become an integral part of our life Some experts think that eventually the person who does not know how to use a computer will be handicapped in performing his or her job To become computer literate you should not only know the use of computers but also how and where they can be used If you are taking a course to familiarize yourself with the world of computers *Computer Fundamentals* serves as an interesting and informative guide in your journey to computer literacy

The AI Act and The Agile Safety Plan Thor Myklebust, Tor Stålhane, Dorthea Mathilde Kristin Vatn, 2025-01-27 This open access book aims to provide the reader with some basic insight into the AI Act REGULATION EU 2024 1689 and its relevance for the development of high risk AI systems It covers all aspects relevant in a safety plan that should serve as the foundation for developing future safety cases for AI safety systems The topics include e g the system definition hardware software and its lifecycles stakeholders and organizations tools programming languages and existing software to be integrated documentation and work products procurement and subcontracting and human aspects The book aims at experts and stakeholders involved in developing high risk systems both manufacturers and operators It is also written for everyone having an interest in how the AI Act impacts technology development processes generally As such especially start ups and small and medium sized enterprises SMEs will find this book useful

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