



# A specification language must:

- Be formal
- Founded on a mathematical theory (semantics)
- Allow proofs of properties
- Enable the development of support tools

# Specification Language And Methodolgy

**Boris Magnusson**



## **Specification Language And Methodolgy:**

*SPECC: Specification Language and Methodology* Daniel D. Gajski, Jianwen Zhu, Rainer Dömer, Andreas Gerstlauer, Shuqing Zhao, 2012-12-06 For the near future the recent predictions and roadmaps of silicon semiconductor technology all agree that the number of transistors on a chip will keep growing exponentially according to Moore's Law pushing technology towards the system on a chip SOC era. However, we are increasingly experiencing a productivity gap where the chip complexity that can be handled by current design teams falls short of the possibilities offered by technological advances. Together with growing time to market pressures, this drives the need for innovative measures to increase design productivity by orders of magnitude. It is commonly agreed that the solutions for achieving such a leap in design productivity lie in a shift of the focus of the design process to higher levels of abstraction on the one hand and in the massive reuse of predesigned complex system components intellectual property IP on the other hand. In order to be successful, both concepts eventually require the adoption of new languages and methodologies for system design backed up by the availability of a corresponding set of system level design automation tools. This book presents the SpecC system level design language SLDL and the corresponding SpecC design methodology. The SpecC language is intended for specification and design of SOC's or embedded systems including software and hardware, whether using fixed platforms integrating systems from different IPs or synthesizing the system blocks from programming or hardware description languages. SpecC Specification Language and Methodology describes the SpecC methodology that leads designers from an executable specification to an RTL implementation through a well-defined sequence of steps. Each model is described and guidelines are given for generating these models from executable specifications. Finally, the SpecC methodology is demonstrated on an industrial size example. The design community is now entering the system level of abstraction era, and SpecC is the enabling element to achieve a paradigm shift in design culture needed for system product design and manufacturing. SpecC Specification Language and Methodology will be of interest to researchers, designers, and managers dealing with system level design, design flows, and methodologies, as well as students learning system specification modeling and design.

**A Methodology, Specification Language, and Automated Support Environment for Computer-aided Design Systems** Duane Robert Worley, Rand Corporation, 1986 Computer based systems are becoming increasingly complex and expensive, and there is a need for extensive design prior to embarking upon costly implementation phases. Many design tools and design techniques have been proposed, and some have been built to stand alone. They are at best loosely integrated with other tools. They have much in common, notably the construction and manipulation of models of the complex system under design, and a high degree of interactivity. A detailed study of areas of commonality guides the requirements definition of a computer aided design of computer systems CAD/OCS support nucleus. The nucleus provides an integrated set of primitives. A specification language targeted to the support nucleus allows description of the design model and human model interaction. This paper hypothesizes

that it is possible to define a methodology a specification language and an automated support environment suitable to the systematic development and execution of CADOCS systems The methodology is applied to UCLA s Systems Architect s Apprentice SARA system the test bed and the resulting SARA IDEAS system serves as an existence proof for the hypothesis Rand abstracts

**Structured Object-Oriented Formal Language and Method** Shaoying Liu, 2013-08-04 This book constitutes the thoroughly refereed post conference proceedings of the Second International Workshop on Structured Object Oriented Formal Language SOFL 2012 held in Kyoto Japan in November 2012 The 10 full papers presented were carefully reviewed and selected for inclusion in this book and address the following topics of interest testing and tools tools for specification model checking and application and prototyping

**Semantics of Specification Languages (SoSL)** Derek J. Andrews, Jan F. Groote, C.A. Middelburg, 2012-12-06 SoSL was the first International Workshop on Semantics of Specification Languages held from 25-27 October 1993 in Utrecht the Netherlands The workshop was organized by the Department of Philosophy of Utrecht University with financial support from the Nationale Faciliteit Informatica of the Nederlandse Organisatie voor Wetenschappelijk Onderzoek NWO and under the auspices of the British Computer Society s specialist group in Formal Aspects of Computing Science BCS FACS The concern of the workshop was the semantics of specification languages and the issues closely related to this area such as type checking and the justification of proof rules and proof obligations Its aim was the exchange of problems and ideas in this field of formal methods and the identification of common programs of work for further investigation The program of SoSL consisted of 3 invited lectures presenting the developments of the semantics of 3 major specification languages Furthermore there were 16 presentations of submitted papers This volume provides a direct account of the workshop It contains 3 papers that match the invited lectures and the 16 selected papers The editors want to thank all those who have contributed to the workshop the Program Committee and the referees for selecting the contributed papers the invited speakers for their interesting talks the Organizing Committee for all their efforts and of course the participants We have the feeling that the workshop was worthwhile and should be repeated

*A Method of Programming Language Specification* Peter Gorham Moulton, 1970

**Algebraic Specification Techniques And Tools For Software Development: The Act Approach** Ingo Claben, Hartmut Ehrig, Dietmar Wolz, 1993-11-30 The intention of this book is to show how algebraic specification methods can be used for software development to support reliability modifiability and reusability These methods are introduced by parameterized and module specifications through practical examples and case studies using algebraic specification languages and tools developed at TU Berlin

**Logics of Specification Languages** Dines Bjørner, Martin C. Henson, 2007-12-05 This book presents comprehensive studies on nine specification languages and their logics of reasoning The editors and authors are authorities on these specification languages and their application In a unique feature the book closes with short commentaries on the specification languages written by researchers closely associated with their original development The book contains extensive references and pointers to future

developments      *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      Formal Methods and Software Engineering Jim Davies, Wolfram Schulte, Mike Barnett, 2004-11-03 Formal engineering methods are changing the way that software systems are developed With language and tool support they are being used for automatic code generation and for the automatic abstraction and checking of implementations In the future they will be used at every stage of development requirements specification design implementation testing and documentation The ICFEM series of conferences aims to bring together those interested in the application of formal engineering methods to computer systems Researchers and practitioners from industry academia and government are encouraged to attend and to help advance the state of the art Authors are strongly encouraged to make their ideas as accessible as possible and there is a clear emphasis upon work that promises to bring practical tangible benefit reports of case studies should have a conceptual message theory papers should have a clear link to application and papers describing tools should have an account of results ICFEM 2004 was the sixth conference in the series and the first to be held in North America Previous conferences were held in Singapore China UK Australia and Japan The Programme Committee received 110 papers and selected 30 for presentation The final versions of those papers are included here together with 2 page abstracts for the 5 accepted tutorials and shorter abstracts for the 4 invited talks      **A Methodology for Developing Multimodal User Interfaces of Information Systems** Adrian Stanculescu, 2008 The Graphical User Interface GUI as the most prevailing type of User Interface UI in today's interactive applications restricts the interaction with a computer to the visual modality and is therefore not suited for some users e.g. with limited literacy or typing skills in some circumstances e.g. while moving around with their hands or eyes busy or when the environment is constrained e.g. the keyboard and the mouse are not available In order to go beyond the GUI constraints the Multimodal MM UIs appear as a paradigm that provides users with great expressive power naturalness and flexibility In this thesis we argue that developing MM UIs combining graphical and vocal modalities is an activity that could benefit from the application of a methodology which is composed of a set of models a method manipulating these models and the tools implementing the method Therefore we define a design space based method

that is supported by model to model colored transformations in order to obtain MM UIs of information systems The design space is composed of explicitly defined design options that clarify the development process in a structured way in order to require less design effort The feasibility of the methodology is demonstrated through three case studies with different levels of complexity and coverage In addition an empirical study is conducted with end users in order to measure the relative usability level provided by different design decisions

#### **Formal Methods and Software Engineering** Chris

George, Huaikou Miao, 2003-06-30 This book constitutes the refereed proceedings of the 4th International Conference on Formal Engineering methods ICFEM 2002 held in Shanghai China in October 2002 The 43 revised full papers and 16 revised short papers presented together with 5 invited contributions were carefully reviewed and selected from a total of 108 submissions The papers are organized in topical sections on component engineering and software architecture method integration specification techniques and languages tools and environments refinement applications validation and verification UML and semantics

NASA Formal Methods Alwyn Goodloe, Suzette Person, 2012-03-30 This book constitutes the refereed proceedings of the Fourth International Symposium on NASA Formal Methods NFM 2012 held in Norfolk VA USA in April 2012 The 36 revised regular papers presented together with 10 short papers 3 invited talks were carefully reviewed and selected from 93 submissions The topics are organized in topical sections on theorem proving symbolic execution model based engineering real time and stochastic systems model checking abstraction and abstraction refinement compositional verification techniques static and dynamic analysis techniques fault protection cyber security specification formalisms requirements analysis and applications of formal techniques

*Leveraging Applications of Formal Methods, Verification and Validation. Industrial Practice* Tiziana Margaria, Bernhard Steffen, 2018-10-29 The four volume set LNCS 11244 11245 11246 and 11247 constitutes the refereed proceedings of the 8th International Symposium on Leveraging Applications of Formal Methods Verification and Validation ISoLA 2018 held in Limassol Cyprus in October November 2018 The papers presented were carefully reviewed and selected for inclusion in the proceedings Each volume focusses on an individual topic with topical section headings within the volume Part I Modeling Towards a unified view of modeling and programming X by construction STRESS 2018 Part II Verification A broader view on verification from static to runtime and back evaluating tools for software verification statistical model checking RERS 2018 doctoral symposium Part III Distributed Systems rigorous engineering of collective adaptive systems verification and validation of distributed systems and cyber physical systems engineering Part IV Industrial Practice runtime verification from the theory to the industry practice formal methods in industrial practice bridging the gap reliable smart contracts state of the art applications challenges and future directions and industrial day

#### **Advances in Design and Specification Languages for SoCs** Pierre Boulet, 2006-06-30

The seventh book in the CHDL Series is composed of a selection of the best articles from the Forum on Specification and Design Languages FDL 04 FDL is the European Forum to learn and exchange on new trends on the application of languages

and models for the design of electronic and heterogeneous systems The forum was structured around four workshops that are all represented in the book by outstanding articles Analog and Mixed Signal Systems UML based System Specification and Design C C Based System Design and Languages for Formal Specification and Verification The Analog and Mixed Signal Systems contributions bring some answers to the difficult problem of co simulating discrete and continuous models of computation The UML based System Specification and Design chapters bring insight into how to use the Model Driven Engineering to design Systems on Chip The C C Based System Design articles mainly explore system level design with SystemC The Languages for Formal Specification and Verification is represented by an invited contribution on the use of temporal assertions for symbolic model checking and simulation And finally chapter in this book contributed by preeminent members of the automotive design industry presents the recent industry standard AutoSAR Overall Advances in Design and Specification Languages for SoCs is an excellent opportunity to catch up with the latest research developments in the field of languages for electronic and heterogeneous system design

**Guidelines for Formal Verification Systems**, 1989 This document explains the requirements for formal verification systems that are candidates for the NCSC s Endorsed Tools List ETL This document is primarily intended for developers of verification systems to use in the development of production quality formal verification systems It explains the requirements and the process used to evaluate formal verification systems submitted to the NCSC for endorsement DTIC

*Integrated Formal Methods* Wolfgang Grieskamp, Thomas Santen, Bill Stoddart, 2007-10-23

Economics of Grids, Clouds, Systems, and Services Jörn Altmann, Gheorghe Cosmin Silaghi, Omer F. Rana, 2016-07-19 This book constitutes the refereed proceedings of the 12th International Conference on Economics of Grids Clouds Systems and Services GECON 2015 held in Cluj Napoca Romania in September 2015 The 11 revised full papers and 10 paper in progress presented were carefully reviewed and selected from 38 submissions The presentation sessions that have been set up are resource allocation service selection in clouds energy conservation and smart grids applications tools and protocols community networks and legal and socio economic aspects

*Database and Expert Systems Applications* Roland R. Wagner, 1996-08-28 Content Description Includes bibliographical references and index

**KORSO: Methods, Languages, and Tools for the Construction of Correct Software** Manfred Broy, Stefan Jähnichen, 1995-11-08 This book constitutes the final report of the work carried out in the project KORSO Korrekte Software funded by the German Federal Ministry for Research and Technology KORSO is an evolutionary prototype oriented project aimed at improving the theoretical foundations of quality driven software engineering and at implementing known techniques for applications of practical relevance The 21 strictly refereed papers presented are organized in five sections on methods for correctness languages development systems and logical frameworks tools and case studies In addition the preface and introductory paper give valuable background information and a concise state of the art overview

**ECOOP 2002 - Object-Oriented Programming** Boris Magnusson, 2003-08-02 This book constitutes the refereed proceedings of the 16th European

Conference on Object Oriented Programming ECOOP 2002 held in Malaga Spain in June 2002 The 24 revised full papers presented together with one full invited paper were carefully reviewed and selected from 96 submissions The book offers topical sections on aspect oriented software development Java virtual machines distributed systems patterns and architectures languages optimization theory and formal techniques and miscellaneous



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web kesimpulan jadi itulah beberapa jenis jenis animasi yang dapat kamu ketahui

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web pengertian animasi secara umum pengertian animasi adalah kumpulan dari gambar bergerak objek bergerak ini pertama kali diciptakan pada akhir tahun 1800 an yang kemudian dalam perkembangannya dilengkapi dengan teks dan suara mickey mouse looney tunes serta tom and jerry adalah beberapa contoh animasi yang sukses

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web jun 16 2017 animasi tradisional memerlukan kemampuan artistik dari pelukisnya dan memiliki banyak jenis gambarnya juga meski begitu banyak animasi computer yang juga dimulai dengan tahapan tradisional juga lho ternyata 2 animasi 2d meskipun animasi 2d sbenarnya juga bisa dilakukan dalam cara tradisional namun animasi 2d sudah

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