

# Formal Specification

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- Techniques for the unambiguous specification of software

# Software Specification Techniques

**Zhe Xu**

## **Software Specification Techniques:**

Software Specification Methods Henri Habrias,Marc Frappier,2013-03-01 This title provides a clear overview of the main methods and has a practical focus that allows the reader to apply their knowledge to real life situations The following are just some of the techniques covered UML Z TLA SAZ B OMT VHDL Estelle SDL and LOTOS

**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

*Integration of Software Specification Techniques for Applications in Engineering* Hartmut Ehrig,2004-09-22 This book constitutes the documentation of the scientific outcome of the priority program Integration of Software Specification Techniques for Applications in Engineering sponsored by the German Research Foundation DFG It includes main contributions of the projects of the priority program and of additional international experts in the field Some of the papers included were presented at the related Third International Workshop on the topic INT 2004 held in Barcelona Spain in March 2004 The 25 revised full papers presented together with 6 section introductions by the volume editors were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on reference case study production automation reference case study traffic control systems petri nets and related approaches in engineering charts verification and integration modeling

Software Specification Techniques Narain Gehani,Andrew D. McGettrick,1986 *Third International Workshop on Software Specification and Design* ,1985

Software Specification Methods Marc Frappier,Henri Habrias,2011-09-28 Software Specification Methods provides the formal methods practitioner with a survey of the key software specification methods Each technique is demonstrated using the same case study an invoicing system to enable the reader to compare and contrast easily Among the techniques covered are UML Z SAZ B JSD OMT VHDL Estelle SDL LOTOS This book is intended for industrial and commercial practitioners who need to expand their knowledge of software specification methods This book provides a basic overview of the main methods with a practical focus which allows readers to apply their knowledge to real life situations

**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 *Formal Specification Techniques for Engineering Modular C Programs* 3 Island Press, 1995-11-30

**Software Specification** John D. Gannon, James Purtalo, Marvin V. Zelkowitz, 1994 Based on material used by the authors in their teaching this volume provides a detailed comparison and study of the various methods for reasoning about software The material offers a comprehensive understanding of which program structures are easier to manipulate by formal techniques thus allowing professionals to write programs that are easier to reason about informally The basic technology presented should be of use in all programming environments *Formal Specification* Nimal

Nissanke, 2012-12-06 Formal Specification is a textbook for 2nd 3rd year undergraduate and postgraduate courses in Formal Methods which offers a practical and versatile approach to constructing specifications It covers both model based and algebraic approaches and emphasises the range of languages and approaches which are available Mathematical principles are explained using examples from everyday life like card games in order to demystify them and make them more comprehensible It includes unrivalled coverage of the topic including all important recent advances lots of exercises with model answers case studies to guide students through the main principles margin notes to identify key points Readers of this book do not have to be fully competent in formal specification it is written to be accessible to any student who wants to learn about the topic *2000 Australian Software Engineering Conference* Douglas D. Grant, 2000 Annotation Contains papers from an April 2000 conference revealing the latest concepts to emerge from software research labs pointing to innovative ways of solving software problems General themes are components and metrics process design and architecture requirements tools and testing Specific topics include a framework for software architecture verification web development effort estimation using analogy and tools and techniques for Java API testing Other subjects are characterizing user data protection of software components and adaptation strategies in componentware Lacks a subject index Annotation

copyrighted by Book News Inc Portland OR *Software Engineering--methods and Techniques* J. Blank, 1983 Evaluation of methods and techniques for the analysis design and implementation of information systems analysis synthesis description per method evaluation matrix conclusions and recommendations references glossary comparison of terminology *Dr. Dobb's*

Journal of Software Tools for the Professional Programmer ,1988

**Formal Specification Techniques for Promoting**

**Software Modularity, Enhancing Documentation, and Testing Specifications** Yang Meng Tan,1994 Abstract This thesis presents three ideas First it presents a novel use of formal specification to promote a programming style based on specified interfaces and data abstraction in a programming language that lacks such supports Second it illustrates the uses of claims about specifications Third it describes a software reengineering process for making existing software easier to maintain and reuse The process centers around specifying existing software modules and using the specifications to drive the code improvement process The Larch C Interface Language or LCL is a formal specification language for documenting ANSI C software modules Although C does not support abstract types LCL is designed to support abstract types A lint like program called LCLint enforces type discipline in clients of LCL abstract types LCL is structured in a way that enables LCLint to extract information from an LCL specification for performing some consistency checks between the specification and its implementation LCL also provides facilities to state claims or redundant problem specific assertions about a specification Claims enhance the role of specifications as a software documentation tool Claims can be used to highlight important or unusual specification properties promote design coherence of software modules and aid in program reasoning In addition claims about a specification can be used to test the specification by proving that they follow semantically from the specification A semantics of LCL suitable for reasoning about claims is given A software reengineering process developed around LCL and claims is effective for improving existing programs The impact of the process applied to an existing C program is described The process improved the modularity and robustness of the program without changing its essential functionality or performance A major product of the process is the specifications of the main modules of the reengineered program A proof checker was used to verify some claims about the specifications and in the process several specification mistakes were found The specifications are also used to illustrate specification writing techniques and heuristics

ACM

Transactions on Software Engineering and Methodology ,2005

**Innovationen bei Rechen- und**

**Kommunikationssystemen** Bernd Wolfinger,1994-08-17 24 GI Jahrestagung im Rahmen des 13th World Computer

Congress IFIP Congress 94 Hamburg 28 August 2 September 1994

Formal Methods and Software Engineering ,2003

Developing C++ Software Russel Winder,1991 Developing C Software teaches C programmers making the transition to C as well as complete novices how to produce robust quality software The emphasis is on the foundations of C and how to use the language in providing solutions to problems Topics covered include abstraction in programming primitive data types construction control flow functional abstraction arrays classes overloading pointer types and inheritance

Software

Process Technology ,1992

**Proceedings of the International Conference on Expert Systems for Development**

,1994

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