



Formal Specification And Software Development

Shaoying Liu



Formal Specification And Software Development:

An Introduction to Formal Specification and Z Ben Potter, Jane Sinclair, David Till, 1991 An introduction to the ideas of formal specification Its features include discussions of formal methods of program development from specifications and management issues involved in the adoption of more formal approaches to software development

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

Foundations of Algebraic Specification and Formal Software Development Donald Sannella, Andrzej Tarlecki, 2012-01-05 This book provides foundations for software specification and formal software development from the perspective of work on algebraic specification concentrating on developing basic concepts and studying their fundamental properties These foundations are built on a solid mathematical basis using elements of universal algebra category theory and logic and this mathematical toolbox provides a convenient language for precisely formulating the concepts involved in software specification and development Once formally defined these notions become subject to mathematical investigation and this interplay between mathematics and software engineering yields results that are mathematically interesting conceptually revealing and practically useful The theory presented by the authors has its origins in work on algebraic specifications that started in the early 1970s and their treatment is comprehensive This book contains five kinds of material the requisite mathematical foundations traditional algebraic specifications elements of the theory of institutions formal specification and development and proof methods While the book is self contained mathematical maturity and familiarity with the problems of software engineering is required and in the examples that directly relate to programming the authors assume acquaintance with the concepts of functional programming The book will be of value to researchers and advanced graduate students in the areas of programming and theoretical computer science

Larch: Languages and Tools for Formal Specification John V. Guttag, James J. Horning, 2012-12-06 Building software often seems harder than it ought to be It takes longer than expected the software s functionality and performance are not as wonderful as hoped and the software is not particularly malleable or easy to maintain It does not have to be that way This book is about programming and the role that formal specifications can play in making programming easier and programs better The intended audience is practicing programmers and students in undergraduate or basic graduate courses in software engineering or formal methods To make the book accessible to such an audience we have not presumed that the reader has formal training in mathematics or computer science We have however presumed some programming experience The roles of formal specifications Designing software is largely a matter of combining inventing and planning the implementation of abstractions The goal of design is to describe a set of modules that

interact with one another in simple well defined ways If this is achieved people will be able to work independently on different modules and yet the modules will fit together to accomplish the larger purpose In addition during program maintenance it will be possible to modify a module without affecting many others Abstractions are intangible But they must somehow be captured and communicated That is what specifications are for Specification gives us a way to say what an abstraction is independent of any of its implementations

Specification and Transformation of Programs Helmut A. Partsch,1990-07-05 Specification and transformation of programs is short for a methodology of software development where from a formal specification of a problem to be solved programs correctly solving that problem are constructed by stepwise application of formal semantics preserving transformation rules The approach considers programming as a formal activity Consequently it requires some mathematical maturity and above all the will to try something new A somewhat experienced programmer or a third or fourth year student in computer science should be able to master most of this material at least this is the level I have aimed at This book is primarily intended as a general introductory textbook on transformational methodology As with any methodology reading and understanding is necessary but not sufficient Therefore most of the chapters contain a set of exercises for practising as homework Solutions to these exercises exist and can in principle be obtained at nominal cost from the author upon request on appropriate letterhead In addition the book also can be seen as a comprehensive account of the particular transformational methodology developed within the Munich CIP project

Formal Methods and Software Development Mr. Rohit Manglik,2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Formal Engineering for Industrial Software Development Shaoying Liu,2013-03-09 In any serious engineering discipline it would be unthinkable to construct a large system without having a precise notion of what is to be built and without verifying how the system is expected to function Software engineering is no different in this respect Formal methods involve the use of mathematical notation and calculus in software development such methods are difficult to apply to large scale systems with practical constraints e g limited developer skills time and budget restrictions changing requirements Here Liu claims that formal engineering methods may bridge this gap He advocates the incorporation of mathematical notation into the software engineering process thus substantially improving the rigor comprehensibility and effectiveness of the methods commonly used in industry This book provides an introduction to the SOFL Structured Object Oriented Formal Language method that was designed and industry tested by the author Written in a style suitable for lecture courses or for use by professionals there are numerous exercises and a significant real world case study so the readers are provided with all the knowledge and examples needed to successfully apply the method in their own projects

Formal Software Development Quentin Charatan,Aaron Kans,2003-09-09 This is a gently paced

software engineering text that concentrates on the use of formal methods for the development of high integrity software It assumes no previous knowledge of formal methods and presents a practical and comprehensive treatment of the subject suitable for second and third year undergraduates on computing courses and students on taught master s courses The book is packed with examples and exercises throughout

ZB 2003: Formal Specification and Development in Z and B

Didier Bert,Jonathan P. Bowen,Steve King,Marina Waldén,2003-08-03 The refereed proceedings of the Third International Conference of Z and B Users ZB 2003 held in Turku Finland in June 2003 The 28 revised full papers presented together with 3 invited papers were carefully reviewed and selected for inclusion in the book The book documents the recent advances for the Z formal specification notation and for the B method spanning the full scope from foundational theoretical and methodological issues to advanced applications tools and case studies

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

The Development of a Graphical Notation for the Formal Specification of Software ,1990 The program transformations lifecycle model proposed by Balzer in 1984 may hold the key to dramatic leap in software engineer productivity necessitated by the tremendous growth in the world s demand for software This leap in productivity is made possible by the program transformation lifecycle s reliance on formal specifications rather than programs as the primary vehicle for the creation and maintenance of software systems Because formal specifications are concerned only with system behaviors and not implementation details formal specifications tend to present critical system characteristics much more concisely than programs The major disadvantage of using formal specifications in a software development process however is that because of their highly mathematical nature formal specifications tend to be very difficult to create understand and maintain for the average software engineer or programmer This thesis develops a graphical formal specification language based on the Refine wide spectrum language using a graph based iconic representation to present formal specifications in a format that is much easier to create and manipulate than the equivalent textual formal specifications

VDM '91. Formal Software

Development Methods. 4th International Symposium of VDM Europe, Noordwijkerhout, The Netherlands, October 21-25, 1991. Proceedings Søren Prehn,W. J. Toetenel,1991 The proceedings of the fourth Vienna Development Method Symposium VDM 91 are published here in two volumes Previous VDM symposia were held in 1987 LNCS 252 1988 LNCS

328 and 1990 LNCS 428 The VDM symposia have been organized by the VDM Europe formed in 1985 as an advisory board sponsored by the Commission of the European Communities The VDM Europe working group consisted of researchers software engineers and programmers all interested in promoting the industrial usage of formal methods for software development The fourth VDM symposium presented not only VDM but also a large number of other methods for formal software development Volume 1 contains the conference contributions It has four parts contributions of invited speakers papers project reports and tools demonstration abstracts The emphasis is on methods and calculi for development verification and verification tools support experiences from doing developments and the associated theoretical problems Volume 2 contains four introductory tutorials on LARCH Refinement Calculus VDM and RAISE and four advanced tutorials on ABEL PROSPECTRA The B Method and The Stack They present a comprehensive account of the state of the art PUBLISHER S WEBSITE [ZB 2002: Formal Specification and Development in Z and B](#) Didier Bert, Jonathan P. Bowen, Martin C. Henson, Ken Robinson, 2003-07-31 This book constitutes the refereed proceedings of the Second International Conference of B and Z Users ZB 2002 held in Grenoble France in January 2002 The 24 papers presented together with three invited contributions were carefully reviewed and selected for inclusion in the book The book documents the recent advances for the Z formal specification notion and for the B method the full scope is covered ranging from foundational and theoretical issues to advanced applications tools and case studies [ZB 2000: Formal Specification and Development in Z and B](#) Jonathan P. Bowen, Steve Dunne, Andrew Galloway, Steve King, 2000-08-16 This book constitutes the refereed proceedings of the First International Conference of B and Z Users ZB 2000 held in York UK in August September 2000 The 25 revised full papers presented together with four invited contributions were carefully reviewed and selected for inclusion in the book The book documents the recent advances for the Z formal specification notion and for the B method the full scope ranging from foundational and theoretical issues to advanced applications tools and case studies is covered [ZB 2005: Formal Specification and Development in Z and B](#) Helen Treharne, Steve King, Martin Henson, Steve Schneider, 2005-04-25 This book constitutes the refereed proceedings of the 4th International Conference of Z and B users ZB 2005 held in Guildford UK in April 2005 The 25 revised full papers presented together with extended abstracts of 2 invited papers were carefully reviewed and selected for inclusion in the book The papers document the recent advances for the Z formal specification notation and for the B method ranging from foundational theoretical and methodological issues to advanced applications tools and case studies [Using Aspect-Oriented Programming for Trustworthy Software Development](#) Vladimir O. Safonov, 2008-06-09 Learn how to successfully implement trustworthy computing tasks using aspect oriented programming This landmark publication fills a gap in the literature by not only describing the basic concepts of trustworthy computing TWC and aspect oriented programming AOP but also exploring their critical interrelationships The author clearly demonstrates how typical TWC tasks such as security checks in and out conditions and multi threaded safety can be implemented using AOP Following

an introduction the book covers Trustworthy computing software engineering and computer science Aspect oriented programming and Aspect NET Principles and case studies that apply AOP to TWC Coverage includes Aspect NET the AOP framework developed by the author for the Microsoft NET platform currently used in seventeen countries The author discusses the basics of Aspect NET architecture its advantages compared to other AOP tools and its functionality The book has extensive practical examples and case studies of trustworthy software design and code using the Aspect NET framework In addition the book explores other software technologies and tools for using AOP for trustworthy software development including Java and AspectJ This book also includes a valuable chapter dedicated to ERATO the author s teaching method employed in this book which has enabled thousands of students to quickly grasp and apply complex concepts in computing and software engineering while the final chapter presents an overall perspective on the current state of AOP and TWC with a view toward the future Software engineers architects developers programmers and students should all turn to this book to learn this tested and proven method to create more secure private and reliable computing

ZUM '95: The Z Formal Specification Notation Jonathan P. Bowen, 1995-08-23 This book presents the proceedings of the 9th International Conference of Z Users ZUM 95 held in Limerick Ireland in September 1995 The book contains 34 carefully selected papers on Z using Z applications of Z proof testing industrial usage object orientation animation of specification method integration and teaching formal methods Of particular interest is the inclusion of an annotated Z bibliography listing 544 entries While focussing on Z by far the most commonly used formal method both in industry and application the volume is of high relevance for the whole formal methods community

VDM '91. Formal Software Development Methods. 4th International Symposium of VDM Europe, Noordwijkerhout, The Netherlands, October 21-25, 1991. Proceedings Soren Prehn, Hans Toetenel, 1991-10-14 The proceedings of the fourth Vienna Development Method Symposium VDM 91 are published here in two volumes Previous VDM symposia were held in 1987 LNCS 252 1988 LNCS 328 and 1990 LNCS 428 The VDM symposia have been organized by the VDM Europe formed in 1985 as an advisory board sponsored by the Commission of the European Communities The VDM Europe working group consisted of researchers software engineers and programmers all interested in promoting the industrial usage of formal methods for software development The fourth VDM symposium presented not only VDM but also a large number of other methods for formal software development Volume 1 contains the conference contributions It has four parts contributions of invited speakers papers project reports and tools demonstration abstracts The emphasis is on methods and calculi for development verification and verification tools support experiences from doing developments and the associated theoretical problems Volume 2 contains four introductory tutorials on LARCH Refinement Calculus VDM and RAISE and four advanced tutorials on ABEL PROSPECTRA THE B Method and The Stack They present a comprehensive account of the state of the art

The Software Life Cycle Darrel Ince, Derek Andrews, 2014-05-20 The Software Life Cycle deals with the software lifecycle that is what exactly happens when software is developed Topics covered

include aspects of software engineering structured techniques of software development and software project management The use of mathematics to design and develop computer systems is also discussed This book is comprised of 20 chapters divided into four sections and begins with an overview of software engineering and software development paying particular attention to the birth of software engineering and the introduction of formal methods of software development The next section explores some aspects of software engineering that tend to get ignored in the literature including functional programming functional programming languages and relational databases The reader is then introduced to structured methods of software development along with software project management The final chapter is devoted to software testing which can be functional or nonfunctional This monograph will be useful to software engineers and designers An Introduction to Formal Specification with Z and VDM Deri Sheppard, 1995 Formal methods emphasize the correct and efficient development of software This text puts formal specification in the context of traditional methods of software development including object orientation introducing these concepts and the necessary discrete maths before moving on to look at both Z and VDM in depth using the case study of a drinks dispensing machine

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