Some Larch Products

Family of specification languages

Provide accurate, checkable documentation

Useful as contracts between implementers, users

Language for abstractions: Larch Shared Language

Interface languages

Larch/CLU, Larch/C (LCL), Larch/C^{++}, ...

New: Larch/Java, Larch/IOA

Tools for analyzing specifications and code

Documentation checkers: LCLint (Evans)

Design analysis: the Larch Prover (medium weight)

Implementation checkers: LCLint

Code optimization: Speckle (Vandevoorde)

Larch Languages And Tools For Formal Specification

Jean-Raymond Abrial,Egon Börger,Hans Langmaack

Larch Languages And Tools For Formal Specification:

   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 fonnal 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   Larch: Languages and Tools for Formal Specification John V. Guttag,James J. Horning,2012-01-25 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 fonnal 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   **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 *Formal Specification Techniques for Engineering Modular C Programs* Tan Yang Meng,2012-12-06 Software is difficult to develop maintain and reuse Two factors that contribute to this difficulty are the lack of modular design and good program documentation The first makes software changes more difficult to implement The second makes programs more difficult to understand and to maintain Formal Specification Techniques for Engineering Modular C Programs describes a novel approach to promoting program modularity The book presents a formal specification language that promotes software modularity through the use of abstract data types even though the underlying programming language may not have such support This language is structured to allow useful information to be extracted from a specification which is then used to perform consistency checks between the specification and its implementation Formal Specification Techniques for Engineering Modular C Programs also describes a specification driven software re engineering process model for improving existing programs The aim of this process is to make existing programs easier to maintain and reuse while keeping their essential functionalities unchanged Audience Suitable as a secondary text for graduate level courses in software engineering and as a reference for researchers and practitioners in industry *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

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 **FME 2003: Formal Methods** Keijiro Araki,2003-08-27 This book constitutes the refereed proceedings of the International Symposium of Formal Methods Europe FME 2003 held in Pisa Italy in September 2003 The 44 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 144 submissions The papers are organized in topical sections on industrial issues control systems and applications communication system verfication co specification and compilers composition Java object orientation and modularity model checking parallel processes program checking and testing B method and security *FME '96: Industrial Benefit and Advances in Formal Methods* Marie-Claude Gaudel,Jim Woodcock,1996-03-06 This book presents the refereed proceedings of the Third International Symposium of Formal Methods Europe FME 96 held in Oxford UK in March 1996 FME 96 was co sponsored by IFIP WG 14 3 and devoted to the application and demonstrated industrial benefit of formal methods their new horizons and strengthened foundations The 35 full revised papers included were selected from a total of 103 submissions also included are three invited papers The book addresses all relevant aspects of formal methods from the point of view of the industrial R D professional as well as from the academic viewpoint and impressively documents the significant progress in the use of formal methods for the solution of real world problems **A Formal Approach to Hardware Design** Jørgen Staunstrup,2012-12-06 A Formal Approach to Hardware Design discusses designing computations to be realised by application specific hardware It introduces a formal design approach based on a high level design language called Synchronized Transitions The models created using Synchronized Transitions enable the designer to perform different kinds of analysis and verification based on descriptions in a single language It is for example possible to use exactly the same design description both for mechanically supported verification and synthesis Synchronized Transitions is supported by a collection of public domain CAD tools These tools can be used with the book in presenting a course on the subject A Formal

Approach to Hardware Design illustrates the benefits to be gained from adopting such techniques but it does so without assuming prior knowledge of formal design methods The book is thus not only an excellent reference it is also suitable for use by students and practitioners   Formal Methods for Industrial Applications Jean-Raymond Abrial,Egon Börger,Hans Langmaack,1996-10-30 This book with the CD ROM included is the documentation of a unique collaborative effort in evaluating formal methods for usage under industrial constraints the major techniques for formally supported specification design and verification of large programs and complex systems are applied to a non trivial and non academic problem which is typical for industrial informal requirements specifications The 21 papers included in the book together with an introduction and competition report were selected from 33 candidate solutions This book comes with a CD ROM containing besides the printed papers executable code full definitions of all parts of the specifications and detailed descriptions of foundational matters where appropriate   *Cryptographic Security Architecture* Peter Gutmann,2007-05-08 A cryptographic security architecture is the collection of hardware and software that protects and controls the use of encryption keys and similar cryptovariables It is the foundation for enforcing computer security policies and controls and preempting system misuse This book provides a comprehensive design for a portable flexible high security cryptographic architecture with particular emphasis on incorporating rigorous security models and practices Cryptographic Security Architecture unveils an alternative means of building a trustworthy system based on concepts from established software engineering principles and cognitive psychology Its novel security kernel design implements a reference monitor that controls access to security relevant objects and attributes based on a configurable security policy Topics and features Builds a concise architectural design that can be easily extended in the future Develops an application specific security kernel that enforces a fully customizable rule based security policy Presents a new verification technique that allows verification from the high level specification down to the running code Describes effective security assurance in random number generation and the pitfalls associated therewith Examines the generation and protection of cryptovariables as well as application of the architectural design to cryptographic hardware The work provides an in depth presentation of a flexible platform independent cryptographic security architecture suited to software hardware and hybrid implementations Security design practitioners professionals researchers and advanced students will find the work an essential resource   Formal Methods for Industrial Critical Systems Gwen Salaün,Bernhard Schätz,2011-09-19 This book constitutes the proceedings of the 16th International Workshop on Formal Methods for Industrial Critical Systems FMICS 2011 held in Trento Italy in August 2011 The 16 papers presented together with 2 invited talks were carefully reviewed and selected from 39 submissions The aim of the FMICS workshop series is to provide a forum for researchers who are interested in the development and application of formal methods in industry It also strives to promote research and development for the improvement of formal methods and tools for industrial applications   Verified Software: Theories, Tools, Experiments Bertrand Meyer,Jim Woodcock,2008-06-29 A Step Towards Verified

Software Worries about the reliability of software are as old as software itself techniques for allaying these worries predate even James King s 1969 thesis on A program verifier What gives the whole topic a new urgency is the conjunction of three phenomena the blitz like spread of software rich systems to control ever more facets of our world and our lives our growing impatience with deficiencies and the development proceeding more slowly alas than the other two trends of techniques to ensure and verify software quality In 2002 Tony Hoare one of the most distinguished contributors to these advances over the past four decades came to the conclusion that piecemeal efforts are no longer sufficient and proposed a Grand Challenge intended to achieve over 15 years the production of a verifying compiler a tool that while processing programs would also guarantee their adherence to specified properties of correctness robustness safety security and other desirable properties As Hoare sees it this endeavor is not a mere research project as might normally be carried out by one team or a small consortium of teams but a momentous endeavor comparable in its scope to the successful mission to send a man to the moon or to the sequencing of the human genome **Active Object Languages: Current Research Trends** Frank de Boer,Ferruccio Damiani,Reiner Hähnle,Einar Broch Johnsen,Eduard Kamburjan,2024-01-28 Active Objects are a programming paradigm that supports a non competitive data driven concurrency model This renders active object languages to be well suited for simulation data race free programming and formal verification Concepts from active objects made their way into languages such as Rust ABS Akka JavaScript and Go This is the first comprehensive state of art overview on the subject the invited contributions are written by experts in the areas of distributed systems formal methods and programming languages Teaching Formal Methods Jeremy Gibbons,Jose Nuno Oliveira,2009-10-26 This book constitutes the refereed proceedings of the TFM 2009 held in Eindhoven The Netherlands in November 2009 The 10 revised full papers presented together with an abstracts of invited talk were carefully reviewed and selected from 19 submissions The papers presented explore the experiences of teaching FMs both successful and unsuccessful educational resources including the use of books case studies and the internet the education of weak and mathphobic students the integration or otherwise of FMs into the curriculum including contributions to the definition of a Formal Methods Body of Knowledge FMBOK the advantages of FM trained graduates in the workplace changing attitudes towards FMs in students academic staff and practitioners and the necessary mathematical background *Fundamental Approaches to Software Engineering* Gabriele Taentzer,2010-03-16 This book constitutes the refereed proceedings of the 13th International Conference on Fundamental Approaches to Software Engineering FASE 2010 held in Paphos Cyprus in March 2010 as part of ETAPS 2010 the European Joint Conferences on Theory and Practice of Software The 25 papers presented were carefully reviewed and selected from 103 submissions The volume also contains one invited talk The topics covered are model transformation software evolution graph transformation modeling concepts verification program analysis testing and debugging and performance modeling and analysis **CAFE: An Industrial-Strength Algebraic Formal Method** K. Futatsugi,A.T. Nakagawa,T. Tamai,2000-10-06 This book contains

selected papers on the language applications and environments of CafeOBJ which is a state of the art algebraic specification language The authors are speakers at a workshop held in 1998 to commemorate a large industrial academic project dedicated to CafeOBJ The project involved more than 40 people from more than 10 organisations of which 6 are industrial The workshop attracted about 30 talks and more than 70 attendees The papers in the book however are either heavily revised versions presented at the workshop to reflect recent advancements or research or completely new ones written especially for this book In this regard the book is not a usual postpublication after a workshop Also although it is a compendium of papers that are related to CafeOBJ the book is not a manual reference or tutorial of CafeOBJ Probably the best description is that it is a collection of papers that investigate how to use or to make it easy to use CafeOBJ Reflecting the diverse nature of the project and its participants most of the authors are participants to the project the papers put together offer a comprehensive picture from this methodological perspective Some papers deal with various advanced aspects of the language such as rewriting logic and behavioural logic For rewriting logic a couple of significant applications were reported In particular UML now considered de facto standard language for modelling systems is the subject of one paper For behavioural logic new methodological guidelines are presented Some papers shed new light on a more traditional paradigm in the language order sorted equational specifications One paper in particular deal with a way to associate CafeOBJ with object oriented programming The other papers deal with environments for writing and vertifying specifications written in CafeOBJ Underlying those papers are two major considerations user interfaces for manipulating specifications and systematic supports for proofs All the environments explained in the papers assume and support distributed computing and de facto standard network technologies such as WWW and http are incorporated *UML'99 - The Unified Modeling Language: Beyond the Standard* Robert B. France,Bernhard Rumpe,2003-07-31 This book constitutes the refereed proceedings of the Second International Conference on the Unified Modeling Language UML 99 held in Fort Collins CO USA in September 1999 The 44 revised full papers presented together with two invited contributions and three panel summaries were carefully reviewed and selected from a total of 166 submissions The papers are organized in topical sections on software architecture UML and other notations formalizing interactions meta modeling tools components UML extension mechanisms process modeling real time systems constraint languages analyzing UML models precise behavioral modeling applying UML sequence design and coding **Recent Trends in Data Type Specification** Magne Haveraaen,Olaf Owe,Ole-Johan Dahl,1996-09-04 This book contains a strictly refereed selection of revised full papers chosen from the papers accepted for presentation during the 11th Workshop on Abstract Data Types held jointly with the 8th COMPASS Workshop in Oslo Norway in September 1995 The 25 research papers included were chosen from 57 pre selected workshop presentations also included are six invited contributions The volume reports the progress achieved in the area of algebraic specification since the predecessor meeting held in May 1994 Formal Foundations for Software Engineering Methods Heinrich

Hußmann,1997-09-23 In this book Hussmann builds a bridge between the pragmatic methods for the design of information systems and the formal mathematical background Firstly the principal feasibility of an integration of the different methods is demonstrated Secondly the formalism is used as a systematic semantic analysis of the concepts in SSADM a British standard structured software engineering method Thirdly a way of obtaining a hybrid formal pragmatic specification using a combination of SSADM notations and formal SPECTRUM specifications is shown This well written book encourages scientists and software engineers to apply formal methods to practical software development problems

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Table of Contents Larch Languages And Tools For Formal Specification

Larch Languages And Tools For Formal Specification Introduction

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