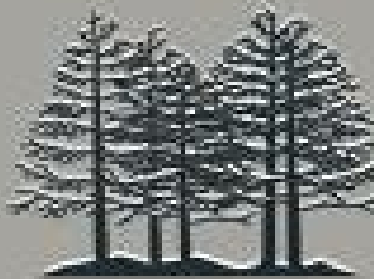


TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE

LARCH: LANGUAGES AND TOOLS FOR FORMAL SPECIFICATION

John V. Guttag/James J. Horning

with S.J. Garland, K.D. Jones, A. Modet, and J.M. Wing



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Larch Languages And Tools For Formal Specification

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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

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Woodcock, Jim Davies, 2003-07-31 Formal methods are coming of age Mathematical techniques and tools are now regarded as an important part of the development process in a wide range of industrial and governmental organisations A transfer of technology into the mainstream of systems development is slowly but surely taking place FM 99 the First World Congress on Formal Methods in the Development of Computing Systems is a result and a measure of this new found maturity It brings an impressive array of industrial and applications oriented papers that show how formal methods have been used to tackle real problems These proceedings are a record of the technical symposium of FM 99 alongside the papers

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Encyclopedia of Computer Science and Technology Allen Kent, James G. Williams, 1998-02-18 Algorithms for Designing Multimedia Storage Servers to Models and Architectures

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 Description Techniques*, 1996 *Technology of Object-oriented Languages, TOOLS 24* Jian Chen, 1998 This volume covers topics including performance evaluation of objects with roles design of flexible class library management systems assembling software with the reusable components in a library and object oriented technology transfer to multiprocessor system level synthesis *Algebraic Methodology and Software Technology*, 2002 *ACM SIGPLAN Notices*, 2006 *Proceedings*, 1997 Metrics and quality assurance knowledge and logic based systems object orientated techniques validation and verification distributed and mobile systems software design methodology software process user interaction and testing software are some of the areas examined in this book *Object-oriented Technology*, 1999 *Sixth International Conference on Tools with Artificial Intelligence*, 1994 *1998 Asia Pacific Software Engineering Conference*, 1998 Partial Contents Architecture Framework Formal Methods Metrics Software Design Methodology Validation UML Software Development Environment Object Oriented Techniques Distributed User Interface *SIGSOFT '95* Gail E. Kaiser, 1995 **Tools and Algorithms for the Construction and Analysis of Systems**, 1998 **TAPSOFT '93** Marie-Claude Gaudel, Jean-Pierre Jouannaud, 1993 This volume contains the proceedings of the fourth International Joint Conference on the Theory and Practice of Software Development TAPSOFT 93 Since the first in 1985 the aim of these conferences has been to bring together theoretical computer scientists and researchers in software engineering with a view to discussing how formal methods can usefully be applied in software development TAPSOFT 93 consists of three parts an advanced seminar the Colloquium on Trees in Algebra and Programming CAAP and the Colloquium on Formal Approaches of Software Engineering FASE The advanced seminar includes four invited surveys and four invited conferences The selected papers for CAAP are organized in seven sessions specifications and proofs concurrency automata and counting constraints solving rewriting logic and trees analysis of algorithms and a common session with FASE on type inference The selected papers for FASE are presented in eight sessions case studies in formal design and development compositionality modules and development formal development foundations and analysis of formal specifications verification of concurrent systems model checking parallel calculus and a common session with CAAP on type inference PUBLISHER S WEBSITE *Proceedings* VHDL International. Users Forum, 1997 **Predictably Dependable Computing Systems** Brian Randell, Jean-Claude Laprie, Hermann Kopetz, Bev Littlewood, 2013-11-11 **ECOOP ...**, 2004

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