Formal Development of Programs and Proofs

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Formal Development Of Programs And Proofs

Richard H. Thayer,Mark J. Christensen

Formal Development Of Programs And Proofs:

Formal Development of Programs and Proofs Edsger W. Dijkstra,1990 In 1987 The University of Texas at Austin sponsored the Year of Programming which consisted of six institutes on selected topics in computer programming Leading scientists and practitioners were invited from around the world for lectures and tutorials for discussion and collaboration The general objectives of these institutes were to advance the art and science of programming and to disseminate the best of what is known about programming theory and practice *Certified Programs and Proofs* Jean-Pierre Jouannaud,Zhong Shao,2011-11-18 This book constitutes the referred proceedings of the First International Conference on Certified Programs and Proofs CPP 2011 held in Kenting Taiwan in December 2011 The 24 revised regular papers presented together with 4 invited talks were carefully reviewed and selected from 49 submissions They are organized in topical sections on logic and types certificates formalization proof assistants teaching programming languages hardware certification miscellaneous and proof perls **A Theory and Practice of Program Development** Derek J. Andrews,2012-12-06 A Theory and Practice of Program Development provides a comprehensive introduction to a software development method based on VDM SL Each development step is rigorously justified and the strategies and transformations used are justified and explained ma thematically The approach provides the formal semantics of a simple but powerful wide spectrum programming language and gives a formal definition of both algorithmic and data refinement Unlike other texts it covers both the theory and practice of program development Although based on VDM SL no knowledge of this language is assumed thus making it widely accessible A Theory and Practice of Program Development is intended for 3rd 4th year undergraduate and postgraduate students taking formal methods and software engineering software developers involved in the production of provably correct computer systems and reusa ble design and the problems of reusable code Interactive Theorem Proving and Program Development Yves Bertot,Pierre Castéran,2013-03-14 Coq is an interactive proof assistant for the development of mathematical theories and formally certified software It is based on a theory called the calculus of inductive constructions a variant of type theory This book provides a pragmatic introduction to the development of proofs and certified programs using Coq With its large collection of examples and exercises it is an invaluable tool for researchers students and engineers interested in formal methods and the development of zero fault software Programs, Proofs, Processes Fernando Ferreira,Benedikt Löwe,Elvira Mayordomo,Luís Mendes Gomes,2010-06-27 This book constitutes the refereed proceedings of the 6th Conference on Computability in Europe CiE 2010 held in Ponta Delgada Azores Portugal in June July 2010 The 28 revised papers presented together with 20 invited lectures were carefully reviewed and selected from 90 submissions The papers address not only the more established lines of research of computational complexity and the interplay between proofs and computation but also novel views that rely on physical and biological processes and models to find new ways of tackling computations and improving their efficiency *Mathematics of Program Construction* ,1992 **Software Engineer's**

Reference Book John A McDermid,2013-10-22 Software Engineer s Reference Book provides the fundamental principles and general approaches contemporary information and applications for developing the software of computer systems The book is comprised of three main parts an epilogue and a comprehensive index The first part covers the theory of computer science and relevant mathematics Topics under this section include logic set theory Turing machines theory of computation and computational complexity Part II is a discussion of software development methods techniques and technology primarily based around a conventional view of the software life cycle Topics discussed include methods such as CORE SSADM and SREM and formal methods including VDM and Z Attention is also given to other technical activities in the life cycle including testing and prototyping The final part describes the techniques and standards which are relevant in producing particular classes of application The text will be of great use to software engineers software project managers and students of computer science **Correctness Preserving Program Refinements** R. J. R. Back,1980 *Types for Proofs and Programs* ,1995 **The Structure and Design of Programming Languages** John E. Nicholls,1975 Introduction background and technical foundations User aspects Elements of procedural programming languages **Engineering: Cornell Quarterly** ,1989 **Logic-based Program Synthesis and Transformation /** ,2003 **A Logic for Correct Program Development** Joseph Louis Bates,1979 **ACM SIGPLAN Notices** ,2006 **Algebraic Methodology and Software Technology (AMAST'91)** Maurice Nivat,Charles Rattray,Teodor Rus,Giuseppe Scollo,1992 This volume contains the proceedings of the Second International Conference on Algebraic Methodology and Software Technology AMAST 91 The aim of the AMAST conferences is to promote the use of algebraic methodology as a foundation for software technology and to examine how it can be used to provide practical mathematical alternatives to the ad hoc methods commonly used in software development In particular the conferences provide a showcase for software systems which have been developed in this way focusing on the conceptual developments which made them possible The resulting volume covers a variety of software development issues and testifies to the versality of algebraic methods when used as conceptual tools in the software development process It features a distinguished collection of invited papers from leading researchers in the field many of which break new ground or represent an important step forward in current research Among the specific topics covered are language design compiler construction software testing symbolic computation and partial evaluation incremental implementation and the verification of program and specification properties Algebraic Methodology and Software Technology AMAST 91 provides a comprehensive overview of this important field of science It will provide invaluable reading for students and researchers both in industry and academia Program Derivation R. G. Dromey,1989 Software Programming Techniques *Proceedings of the First International Conference on System Development Environments and Factories, Berlin, 9-11 May, 1989* Nazim H. Madhavji,Wilhelm Schäfer,Herbert Weber,1990 *Automated People Movers* ,1997 **Software Engineering, The Development Process** Richard H. Thayer,Mark J. Christensen,2005-11-11 This book integrates a useful set of software

engineering standards with accompanying papers on specific knowledge areas in software engineering Used as a CSDP resource guide it should improve a test taker s ability to pass the IEEE CSDP Certified Software Development Professionals exam   **Proceedings, the Sixteenth International Computer Software & Applications Conference** ,1991

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