Nondeterminism in Algebraic Specifications and Algebraic Programs

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Nondetermination In Algebraic Specifications And Algebraic Programs Progreb In Theoretical Computer Science S

H. Ehrig

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Nondeterminism in Algebraic Specifications and Algebraic Programs Hussmann,2013-03-08 Algebraic specification nondeterminism and term rewriting are three active research areas aiming at concepts for the abstract description of software systems Algebraic specifications are well suited for describing data structures and sequential software systems in an abstract way Term rewriting methods are used in many prototyping systems and form the basis for executing specifi cations Nondeterminism plays a major role in formal language theory in programming it serves for delaying design decisions in program development and occurs in a natural way in formalisations of distributed processes Heinrich Hussmann presents an elegant extension of equational specification and term rewriting to include nondeterminism Based on a clean modeltheoretic semantics he considers term rewriting systems without confluence restrictions as a specification language and shows that fundamental properties such as the existence of initial models or the soundness and completeness of narrowing the basic mechanism for executing equational specifications can be extended to nondeterministic computations The work of Heinrich Hussmann is an excellent contribution to Algebraic Programming it gives a framework that admits a direct approach to program verification is suitable for describing concurrent and distributed processes and it can be executed as fast as Prolog Fundamentals of Algebraic Specification Hartmut Ehrig,1985 **Algebraic System Specification and Development** Michel Bidoit,1991-06-26 Methods for the algebraic specification of abstract data types were proposed in the early 1970s in the USA and Canada and became a major research issue in Europe shortly afterwards Since then the algebraic approach has come to play a central role in research on formal specification and development as its range of applications was extended to the specification of complete software systems to the formal description of the program development process and to the uniform definition of syntax and semantics of programming languages Today this approach extends beyond just software to the development of integrated hardware and software systems These flourishing activities in the area of algebraic specifications have led to an abundance of approaches theories and concepts which have universal algebra category theory and logic as a common mathematical basis This volume is an annotated bibliography which provides an up to date overview of past and present work on algebraic specification No attempt is made to provide a coherent introduction to the topic for beginners the intention is rather to provide a guide to the current literature for researchers in algebraic specification and neighboring fields Some indications of how the different approaches are related are included together with some ideas concerning possible future directions *Universal Algebra for Computer Scientists* Wolfgang Wechler,2012-12-06 A new model theoretic approach to universal algebra is offered in this book Written for computer scientists it presents a systematic development of the methods and results of universal algebra that are useful in a variety of applications in computer science The notation is simple and the concepts are clearly presented The book concerns

the algebraic characterization of axiomatic classes of algebras equational implicational and universal Horn classes by closure operators generalizing the famous Birkhoff Variety Theorem and the algebraic characterization of the related theories The book also presents a thorough study of term rewriting systems Besides basic notions the Knuth Bendix completion procedure and termination proof methods are considered A third main topic is that of fixpoint techniques and complete ordered algebras Algebraic specifications of abstract data types and algebraic semantics of recursive program schemes are treated as applications The book is self contained and suitable both as a textbook for graduate courses and as a reference for researchers   *Fundamentals of Algebraic Specification 2* Hartmut Ehrig,Bernd Mahr,1989-12-28 Since the early seventies concepts of specification have become central in the whole area of computer science Especially algebraic specification techniques for abstract data types and software systems have gained considerable importance in recent years They have not only played a central role in the theory of data type specification but meanwhile have had a remarkable influence on programming language design system architectures arid software tools and environments The fundamentals of algebraic specification lay a basis for teaching research and development in all those fields of computer science where algebraic techniques are the subject or are used with advantage on a conceptual level Such a basis however we do not regard to be a synopsis of all the different approaches and achievements but rather a consistently developed theory Such a theory should mainly emphasize elaboration of basic concepts from one point of view and in a rigorous way reach the state of the art in the field We understand fundamentals in this context as 1 Fundamentals in the sense of a carefully motivated introduction to algebraic specification which is understandable for computer scientists and mathematicians 2 Fundamentals in the sense of mathematical theories which are the basis for precise definitions constructions results and correctness proofs 3 Fundamentals in the sense of concepts from computer science which are introduced on a conceptual level and formalized in mathematical terms   Fundamentals of Algebraic Specification 1 Hartmut Ehrig,Bernd Mahr,1985-03-01 The aim of this book is to present fundamentals of algebraic specifications with respect to the following three aspects fundamentals in the sense of a carefully motivated introduction to algebraic specifications which is easy to understand for computer scientists and mathematicians fundamentals in the sense of mathematical theories which are the basis for precise definitions constructions results and correctness proofs and fundamentals in the sense of concepts which are introduced on a conceptual level and formalized in mathematical terms The book is equally suitableas a text book for graduate courses and as a reference for researchers and system developers   **Fundamentals of Algebraic Specification: Equations & initial semantics; 2. Module specifications and constraints** Hartmut Ehrig,1990   *Algebraic Foundations of Systems Specification* Egidio Astesiano,Hans-Jörg Kreowski,Bernd Krieg-Brückner,2012-12-06 The aim of software engineering is the provision and investigation of methods for the development of software systems of high quality with correctness as a key issue A system is called correct if it does what one wants if it meets the requirements To achieve and to guarantee correct

systems the need of formal methods with rigorous semantics and the possibility of verification is widely accepted Algebraic specification is a software engineering approach of this perspective When Liskov and Zilles Guttag and the ADJ group with Goguen Thatch er Wagner and Wright introduced the basic ideas of algebraic specification in the mid seventies in the U S A and Canada they initiated a very successful and still flourishing new area In the late seventies algebraic specification became a major research topic also in many European countries Originally the algebraic framework was intended for the mathematical foundation of ab stract data types and the formal development of first order applicative pro grams Meanwhile the range of applications has been extended to the precise specification of complete software systems the uniform definition of syntax and semantics of programming languages and to the stepwise development of correct systems from the requirement definitions to the running programs The activities in the last 25 years have led to an abundance of concepts methods approaches theories languages and tools which are mathemati cally founded in universal algebra category theory and logic **Fundamentals of Algebraic Specification 1** Hartmut Ehrig,Bernd Mahr,2011-12-10 The aim of this book is to present fundamentals of algebraic specifications with respect to the following three aspects fundamentals in the sense of a carefully motivated introduction to algebraic specifications which is easy to understand for computer scientists and mathematicians fundamentals in the sense of mathematical theories which are the basis for precise definitions constructions results and correctness proofs and fundamentals in the sense of concepts which are introduced on a conceptual level and formalized in mathematical terms The book is equally suitableas a text book for graduate courses and as a reference for researchers and system developers **Universal Algebra and Applications in Theoretical Computer Science** Klaus Denecke,Shelly L. Wismath,2002-01-18 Over the past 20 years the emergence of clone theory hyperequational theory commutator theory and tame congruence theory has led to a growth of universal algebra both in richness and in applications especially in computer science Yet most of the classic books on the subject are long out of print and to date no other book has integrated these theories with the long established work that supports them Universal Algebra and Applications in Theoretical Computer Science introduces the basic concepts of universal algebra and surveys some of the newer developments in the field The first half of the book provides a solid grounding in the core material A leisurely pace careful exposition numerous examples and exercises combine to form an introduction to the subject ideal for beginning graduate students or researchers from other areas The second half of the book focuses on applications in theoretical computer science and advanced topics including Mal cev conditions tame congruence theory clones and commutators The impact of the advances in universal algebra on computer science is just beginning to be realized and the field will undoubtedly continue to grow and mature Universal Algebra and Applications in Theoretical Computer Science forms an outstanding text and offers a unique opportunity to build the foundation needed for further developments in its theory and in its computer science applications *Algebraic Methods II: Theory, Tools and Applications* Jan A. Bergstra,Loe M.G. Feijs,1991-04-10 The proper

treatment and choice of the basic data structures is an important and complex part in the process of program construction Algebraic methods provide techniques for data abstraction and the structured specification validation and analysis of data structures This volume originates from a workshop organized within ESPRIT Project 432 METEOR An Integrated Formal Approach to Industrial Software Development held in Mierlo The Netherlands September 1989 The volume includes five invited contributions based on workshop talks given by A Finkelstein P Klint C A Middelburg E R Olderog and H A Partsch Ten further papers by members of the METEOR team are based on talks given at the workshop The workshop was a successor to an earlier one held in Passau Germany June 1987 the proceedings of which were published as Lecture Notes in Computer Science Vol 394 *Foundamentals of Algebraic Specifications 1* H. Ehrig,1985 Fundamentals of Algebraic Specification: Module specifications and constraints Hartmut Ehrig,Bernd Mahr,1992 **Toward Formal Development of Programs from Algebraic Specifications** Donald Sannella,Andrzej Tarlecki,1986 **Fundamentals of Algebraic Specifications** Hartmut Ehrig,Bernd Mahr,1985 *Algebraic Specifications in Software Engineering* Ivo Van Horebeek,Johan Lewi,2012-12-06 I prefer to view formal methods as tools the use of which might be helpful E W Dijkstra Algebraic specifications are about to be accepted by industry Many projects in which algebraic specifications have been used as a design tool have been carried out What prevents algebraic specifications from breaking through is the absence of introductory descriptions and tools supporting the construction of algebraic specifications On the one hand interest from industry will stimulate people to make introductions and tools whereas on the other hand the existence of introductions and tools will stimulate industry to use algebraic specifications This book should be seen as a contribution towards creating this virtuous circle The book will be of interest to software designers and programmers It can also be used as material for an introductory course on algebraic specifications and software engineering at undergraduate or graduate level Nowadays there is general agreement that in large software projects appropriate specifications are a must in order to obtain quality software Informal specifications alone are certainly not appropriate because they are incomplete inconsistent inaccurate and ambiguous and they rapidly become bulky and therefore useless The only way to overcome this problem is to use formal specifications An important remark here is that a specification formalism language alone is not sufficient What is also needed is a design method to write specifications in that formalism **2nd International Workshop on the Theory and Practice of Algebraic Specifications** M. P. A. Sellink,1998 Over the past five years the Workshops in Computing series has provided a platform for state of the art research in a wide range of topics within computing science As of 1996 the series has been published on line the aim being to make this important research material available in a more versatile and user friendly format The full papers from the 2nd International Workshop on the Theory and Practice of Algebraic Specifications are available on line at http ewic springer co uk This booklet provides the passwords needed to access the web site Purchasing the booklet p rovides the use with unlimited access to the site for four years subject or course to entry of the correct

passwords each time This workshop provided a forum for the presentation of research papers on the theory design implementation and application of algebraic specifications in general and the ASF SDF formalism in particular The papers included cover areas such as algebraic specification industrial applications practical experience and case studies program understanding programming environments and language prototyping **Computer Algebra and Polynomials** Jaime Gutierrez,Josef Schicho,Martin Weimann,2015-01-20 Algebra and number theory have always been counted among the most beautiful mathematical areas with deep proofs and elegant results However for a long time they were not considered that important in view of the lack of real life applications This has dramatically changed nowadays we find applications of algebra and number theory frequently in our daily life This book focuses on the theory and algorithms for polynomials over various coefficient domains such as a finite field or ring The operations on polynomials in the focus are factorization composition and decomposition basis computation for modules etc Algorithms for such operations on polynomials have always been a central interest in computer algebra as it combines formal the variables and algebraic or numeric the coefficients aspects The papers presented were selected from the Workshop on Computer Algebra and Polynomials which was held in Linz at the Johann Radon Institute for Computational and Applied Mathematics RICAM during November 25 29 2013 at the occasion of the Special Semester on Applications of Algebra and Number Theory **Toward Formal Development of Programs from Algebraic Specifications** Donald Sannella,1987 *Algorithmic Methods in Non-Commutative Algebra* J.L. Bueso,José Gómez-Torrecillas,A. Verschoren,2003-07-31 The already broad range of applications of ring theory has been enhanced in the eighties by the increasing interest in algebraic structures of considerable complexity the so called class of quantum groups One of the fundamental properties of quantum groups is that they are modelled by associative coordinate rings possessing a canonical basis which allows for the use of algorithmic structures based on Groebner bases to study them This book develops these methods in a self contained way concentrating on an in depth study of the notion of a vast class of non commutative rings encompassing most quantum groups the so called Poincar Birkhoff Witt rings We include algorithms which treat essential aspects like ideals and bi modules the calculation of homological dimension and of the Gelfand Kirillov dimension the Hilbert Samuel polynomial primality tests for prime ideals etc

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