

INTERNATIONAL SERIES OF MONOGRAPHS ON
COMPUTER SCIENCE NO. 2

Initial Computability Algebraic Specifications and Partial Algebras

HORST REICHEL



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Initial Computability Algebraic Specifications And Partial Algebras

Horst Reichel



Initial Computability Algebraic Specifications And Partial Algebras:

Initial Computability, Algebraic Specifications, and Partial Algebras Horst Reichel, 1987 One of the first detailed expositions of partial algebras this book develops a special theory of partial algebras as a powerful foundation of a model theoretic initial semantics of algebraic specification languages Professor Reichel explores the possibility of increasing the use of partial algebras particularly in computer science He presents examples of algebraic specifications of increasing complexity and proves that structural induction can yield a complete calculus of abstract programs on parameterized abstract data types Finally he extends the model theoretic initial semantics of abstract data types with partial operations to behavioral semantics

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 *Mathematical Foundations of Computer Science 1981* J.

Gruska, M. Chytil, 1981-08 **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

The Theory of Partial Algebraic Operations E.S. Ljapin,A.E. Evseev,2013-04-17 Nowadays algebra is understood basically as the general theory of algebraic operations and relations It is characterised by a considerable intrinsic naturalness of its initial notions and problems the unity of its methods and a breadth that far exceeds that of its basic concepts It is more often that its power begins to be displayed when one moves outside its own limits This characteristic ability is seen when one investigates not only complete operations but partial operations To a considerable extent these are related to algebraic operators and algebraic operations The tendency to ever greater generality is amongst the reasons that play a role in explaining this development But other important reasons play an even greater role Within this same theory of total operations that is operations defined everywhere there persistently arises in its different sections a necessity of examining the emergent feature of various partial operations It is particularly important that this has been found in those parts of algebra it brings together and other areas of mathematics it interacts with as well as where algebra finds application at the very limits of mathematics In this connection we mention the theory of the composition of mappings category theory the theory of formal languages and the related theory of mathematical linguistics coding theory information theory and algebraic automata theory In all these areas as well as in others from time to time there arises the need to consider one or another partial operation

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 Thatcher 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 abstract data types and the formal development of first order applicative programs 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 mathematically founded in universal algebra category theory and logic

Mathematical Foundations of Computer Science

1991 Andrzej Tarlecki, 1991 This volume contains the proceedings of the 16th International Symposium on Mathematical Foundations of Computer Science MFCS 91 held in Kazimierz Dolny Poland September 9-13 1991 The series of MFCS symposia organized alternately in Poland and Czechoslovakia since 1972 has a long and well established tradition The purpose of the series is to encourage high quality research in all branches of theoretical computer science and to bring together specialists working actively in the area Principal areas of interest in this symposium include software specification and development parallel and distributed computing logic and semantics of programs algorithms automata and formal languages complexity and computability theory and others The volume contains 5 invited papers by distinguished scientists and 38 contributions selected from a total of 109 submitted papers *Algebraic Methodology and Software Technology (AMAST'93)* Maurice Nivat, Charles Rattra, Teodor Rus, Giuseppe Scollo, 2012-12-06 The goal of the AMAST conferences is to foster algebraic methodology as a foundation for software technology and to show that this can lead to practical mathematical alternatives to the ad hoc approaches commonly used in software engineering and development The first two AMAST conferences held in May 1989 and May 1991 at the University of Iowa were well received and encouraged the regular organization of further AMAST conferences on a biennial schedule The third Conference on Algebraic Methodology and Software Technology was held in the campus of the University of Twente The Netherlands during the first week of Summer 1993 Nearly a hundred people from all continents attended the conference The largest interest received by the AMAST conference among the professionals extended to include the administration organizations as well AMAST 93 was opened by the Rector of the University of Twente followed by the Local Chairman Their opening addresses open this proceedings too The proceedings contains 8 invited papers and 32 selected communications The selection was very strict for 121 submissions were received **Volume 5. Algebraic and Logical Structures** S. Abramsky, Dov M. Gabbay, T. S. E. Maibaum, 2001-01-25 This handbook volume covers fundamental topics of semantics in logic and computation The chapters some monographic in length were written following years of coordination and follow a thematic point of view The volume brings the reader up to front line research and is indispensable to any serious worker in the areas *CASL Reference Manual*, 2004 **CASL Reference Manual** Peter D. Mosses, 2004-02-24 CASL the Common Algebraic Specification Language was designed by the members of CoFI the Common Framework Initiative for algebraic specification and development and is a general purpose language for practical use in software development for specifying both requirements and design CASL is already regarded as a de facto standard and various sublanguages and extensions are available for specific tasks This reference manual presents a detailed documentation of the CASL specification formalism It reviews the main underlying concepts and carefully summarizes the intended meaning of each construct of CASL The book formally defines both the syntax and semantics of CASL and presents a logic for reasoning about CASL specifications Furthermore extensive libraries of CASL specifications of basic data types are provided as well as a comprehensive annotated bibliography

of CoFI publications As a separate complementary book LNCS 2900 presents a tutorial introduction to CASL the CASL User Manual

CAAP '92 Jean-Claude Raoult,1992-02-19 This volume contains selected papers presented at the seventeenth Colloquium on Trees in Algebra and Programming CAAP held jointly with the European Symposium on Programming ESOP in Rennes France February 26 28 1992 the proceedings of ESOP appear in LNCS 582 The previous colloquia were held in France Italy Germany Spain Denmark and England Every even year as in 1992 CAAP is held jointly with ESOP every other year it is part of TAPSOFT Theory And Practice of SOFTWARE development In the beginning CAAP was devoted to algebraic and combinatorial properties of trees and their role in various fields of computer science The scope of CAAP has now been extended to other discrete structures like graphs equations and transformations of graphs and their links with logical theories The programme committee received 40 submissions from which 19 papers have been selected for inclusion in this volume

Algebraic Methodology and Software Technology Armando M. Haeberer,2003-05-20 AMAST's goal is to advance awareness of algebraic and logical methodology as part of the fundamental basis of software technology Ten years and seven conferences after the start of the AMAST movement I believe we are attaining this The movement has propagated throughout the world assembling many enthusiastic specialists who have participated not only in the conferences which are now annual but also in the innumerable other activities that AMAST promotes and supports We are now facing the Seventh International Conference on Algebraic Methodology and Software Technology AMAST 98 The previous meetings were held in Iowa City USA 1989 and 1991 in Enschede The Netherlands 1993 in Montreal Canada 1995 in Munich Germany 1996 and in Sydney Australia 1997 This time it is Brazil's turn in a very special part of this colorful country Amazonia Thus if we have done more it is by standing on the shoulders of giants The effort started by Teodor Rus Arthur Fleck and William A Kirk at AMAST 89 was consolidated in AMAST 91 by Teodor Rus Maurice Nivat Charles Ratnay and Giuseppe Scollo Then came modular construction of the building wonderfully carried out by Giuseppe Scollo Vangalur Alagar Martin Wirsing and Michael Johnson as Program Chairs of the AMAST conferences held between 1993 and 1997

Algebraic Specification Techniques and Tools for Software Development Ingo Classen,Hartmut Ehrig,Dietmar Wolz,1993 The intention of this book is to show how algebraic specification methods can be used for software development to support reliability modifiability and reusability These methods are introduced by parameterized and module specifications through practical examples and case studies using algebraic specification languages and tools developed at TU Berlin

Logics of Specification Languages Dines Bjørner,Martin C. Henson,2007-12-05 This book presents comprehensive studies on nine specification languages and their logics of reasoning The editors and authors are authorities on these specification languages and their application In a unique feature the book closes with short commentaries on the specification languages written by researchers closely associated with their original development The book contains extensive references and pointers to future developments

Automata, Languages and Programming Thomas Ottmann,1987-07-08 This volume contains the proceedings of the 14th

International Colloquium on Automata Languages and Programming organized by the European Association for Theoretical Computer Science EATCS and held in Karlsruhe July 13 17 1987 The papers report on original research in theoretical computer science and cover topics such as algorithms and data structures automata and formal languages computability and complexity theory semantics of programming languages program specification transformation and verification theory of data bases logic programming theory of logical design and layout parallel and distributed computation theory of concurrency symbolic and algebraic computation term rewriting systems cryptography and theory of robotics The authors are young scientists and leading experts in these areas *Algebraic Methodology and Software Technology* Michael Johnson, 1997-12

This book constitutes the refereed proceedings of the 6th International Conference on Algebraic Methodology and Software Engineering AMAST 97 held in Sydney Australia in December 1997 The volume presents 48 revised full papers selected from an unusually high number of submissions One of the outstanding features of AMAST is its mix of serious mathematical development of formal methods in software engineering with practical concerns tools case studies and industrial development The volume addresses all current aspects of formal methods in software engineering and programming methodology with a certain emphasis on algebraic and logical foundations **Recent Trends in Algebraic Development Techniques** Didier Bert, Christine Choppy, Peter Mosses, 2004-02-02 This book constitutes the thoroughly refereed post workshop proceedings of the 14th International Workshop on Algebraic Development Techniques WADT 99 held in Toulouse France in September 1999 The 23 revised full papers presented together with three invited papers were carefully reviewed and selected from 69 workshop presentations The papers address the following topics algebraic specification and other specification formalisms test and validation concurrent processes applications logic and validation combining formalisms subsorts and partiality structuring rewriting co algebras and sketches refinement institutions and categories and ASM specifications **Algebra, Meaning, and Computation** Kokichi Futatsugi, 2006-06-22 This volume honoring the computer science pioneer Joseph Goguen on his 65th Birthday includes 32 refereed papers by leading researchers in areas spanned by Goguen's work The papers address a variety of topics from meaning meta logic specification and composition behavior and formal languages as well as models deduction and computation by key members of the research community in computer science and other fields connected with Joseph Goguen's work *Algebraic Methodology and Software Technology*, 1997

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