TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE

ALGEBRAIC APPROACHES TO PROGRAM SEMANTICS

Ernest G. Manes
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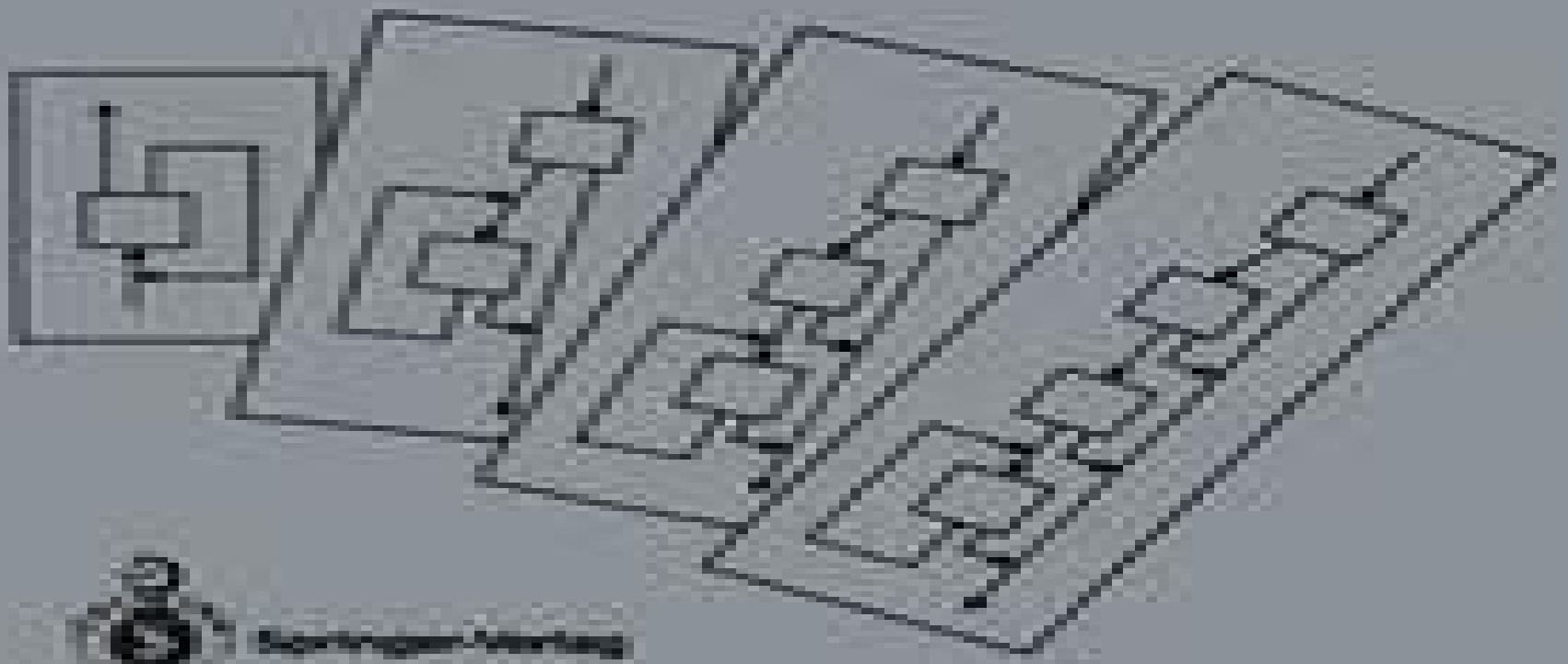

Springer-Verlag

Algebraic Approaches To Program Semantics

Ernest Gene Manes

Algebraic Approaches To Program Semantics:

Algebraic Approaches to Program Semantics Ernest G. Manes,Michael A. Arbib,2012-12-06 In the 1930s mathematical logicians studied the notion of effective comput ability using such notions as recursive functions A calculus and Turing machines The 1940s saw the construction of the first electronic computers and the next 20 years saw the evolution of higher level programming languages in which programs could be written in a convenient fashion independent thanks to compilers and interpreters of the architecture of any specific machine The development of such languages led in turn to the general analysis of questions of syntax structuring strings of symbols which could count as legal programs and semantics determining the meaning of a program for example as the function it computes in transforming input data to output results An important approach to semantics pioneered by Floyd Hoare and Wirth is called assertion semantics given a specification of which assertions preconditions on input data should guarantee that the results satisfy desired assertions postconditions on output data one seeks a logical proof that the program satisfies its specification An alternative approach pioneered by Scott and Strachey is called denotational semantics it offers algebraic techniques for characterizing the denotation of i e the function computed by a program the properties of the program can then be checked by direct comparison of the denotation with the specification This book is an introduction to denotational semantics More specifically we introduce the reader to two approaches to denotational semantics the order semantics of Scott and Strachey and our own partially additive semantics

Algebraic approaches to program semantics Ernest Gene Manes,1986 Algebraic Methods in Semantics M. Nivat,John C. Reynolds,1985 This book which contains contributions from leading researchers in France USA and Great Britain gives detailed accounts of a variety of methods for describing the semantics of programming languages i e for attaching to programs mathematical objects that encompass their meaning Consideration is given to both denotational semantics where the meaning of a program is regarded as a function from inputs to outputs and operational semantics where the meaning includes the sequence of states or terms generated internally during the computation The major problems considered include equivalence relations between operational and denotational semantics rules for obtaining optimal computations especially for nondeterministic programs equivalence of programs meaning preserving transformations of programs and program proving by assertions Such problems are discussed for a variety of programming languages and formalisms and a wealth of mathematical tools is described *Algebraic Approach to Program Semantics* Ernest G. Manes,1986 *An Algebraic Approach to Compiler Design* Augusto Sampaio,1997 This book investigates the design of compilers for procedural languages based on the algebraic laws which these languages satisfy The particular strategy adopted is to reduce an arbitrary source program to a general normal form capable of representing an arbitrary target machine This is achieved by a series of normal form reduction theorems which are proved algebraically from the more basic laws The normal form and the related reduction theorems can then be instantiated to design compilers for distinct target

machines This constitutes the main novelty of the author s approach to compilation together with the fact that the entire process is formalised within a single and uniform semantic framework of a procedural language and its algberaic laws Furthermore by mechanising the approach using the OBJ3 term rewriting system it is shown that a prototype compiler is developed as a byproduct of its own proof of correctness **Mathematical Foundations of Programming Semantics** Stephen Brookes,1994-05-20 This volume is the proceedings of the Ninth International Conference on the Mathematical Foundations of Programming Semantics held in New Orleans in April 1993 The focus of the conference series is the semantics of programming languages and the mathematics which supports the study of the semantics The semantics is basically denotation The mathematics may be classified as category theory lattice theory or logic Recent conferences and workshops have increasingly emphasized applications of the semantics and mathematics The study of the semantics develops with the mathematics and the mathematics is inspired by the applications in semantics The volume presents current research in denotational semantics and applications of category theory logic and lattice theory to semantics **Formal Methods and Software Engineering** Jing Sun,Meng Sun,2018-11-05 This book constitutes the refereed proceedings of the 20th International Conference on Formal Engineering Methods ICFEM 2018 held in Gold Coast QLD Australia in November 2018 The 22 revised full papers presented together with 14 short papers were carefully reviewed and selected from 66 submissions The conference focuses on all areas related to formal engineering methods such as verification network systems type theory theorem proving logic and semantics refinement and transition systems and emerging applications of formal methods Relational and Algebraic Methods in Computer Science Jules Desharnais,Walter Guttmann,Stef Joosten,2018-10-22 This book constitutes the proceedings of the 17th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2018 held in Groningen The Netherlands in October November 2018 The 21 full papers and 1 invited paper presented together with 2 invited abstracts and 1 abstract of a tutorial were carefully selected from 31 submissions The papers are organized in the following topics Theoretical foundations reasoning about computations and programs and applications and tools Comparative Metric Semantics of Programming Languages Franck van Breughel,2012-12-06 During the last three decades several different styles of semantics for program ming languages have been developed This book compares two of them the operational and the denotational approach On the basis of several exam ples we show how to define operational and denotational semantic models for programming languages Furthermore we introduce a general technique for comparing various semantic models for a given language We focus on different degrees of nondeterminism in programming lan guages Nondeterminism arises naturally in concurrent languages It is also an important concept in specification languages In the examples discussed the degree of non determinism ranges from a choice between two alternatives to a choice between a collection of alternatives indexed by a closed interval of the real numbers The former arises in a language with nondeterministic choices A real time language with dense choices gives rise to the latter We also

consider the nondeterministic random assignment and parallel composition both couched in a simple language Besides non determinism our four example languages contain some form of recursion a key ingredient of programming languages

Semirings and their Applications Jonathan S. Golan,1999-07-31 This work is an updated and considerably expanded version of the author s book The Theory of Semirings with Applications to Mathematics and Theoretical Science which has been recognized as the definitive reference work in this area This edition includes many of the new results in this area as well as further applications of semiring theory in such areas as idempotent analysis discrete dynamical systems formal language theory fuzzy set theory optimization etc The book contains an extensive bibliography and a large number of examples Audience This book is aimed both at mathematicians and at researchers in applied mathematics and theoretical computer science It is also suitable for use as a graduate level textbook **Geometric Computing Science** Robert Hermann,1991 **Relational and Algebraic Methods in Computer Science** Peter Höfner,Peter Jipsen,Wolfram Kahl,Martin Eric Müller,2014-04-08 This book constitutes the proceedings of the 14th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2014 held in Marienstatt Germany in April May 2014 The 25 revised full papers presented were carefully selected from 37 submissions The papers are structured in specific fields on concurrent Kleene algebras and related formalisms reasoning about computations and programs heterogeneous and categorical approaches applications of relational and algebraic methods and developments related to modal logics and lattices

Handbook of Weighted Automata Manfred Droste,Werner Kuich,Heiko Vogler,2009-09-18 The purpose of this Handbook is to highlight both theory and applications of weighted automata Weighted finite automata are classical nondeterministic finite automata in which the transitions carry weights These weights may model e g the cost involved when executing a transition the amount of resources or time needed for this or the probability or reliability of its successful execution The behavior of weighted finite automata can then be considered as the function suitably defined associating with each word the weight of its execution Clearly weights can also be added to classical automata with infinite state sets like pushdown automata this extension constitutes the general concept of weighted automata To illustrate the diversity of weighted automata let us consider the following scenarios Assume that a quantitative system is modeled by a classical automaton in which the transitions carry as weights the amount of resources needed for their execution Then the amount of resources needed for a path in this weighted automaton is obtained simply as the sum of the weights of its transitions Given a word we might be interested in the minimal amount of resources needed for its execution i e for the successful paths realizing the given word In this example we could also replace the resources by profit and then be interested in the maximal profit realized correspondingly by a given word Recent Trends in Data Type Specification Michel Bidoit,Christine Choppy,1993-01-29 The algebraic specification of abstract data types has been a flourishing research topic in computer science since 1974 The main goal of this work isto evolve theoretical foundations and a methodology to support the design

and formal development of reliable software This volume gives the proceedings of the Eighth Workshop on Specification of Abstract Data Types held jointly with the Third COMPASS workshop near Paris in August 1991 The main topics covered by the joint workshop are specification languagesand program development algebraic specification of concurrency theorem proving object oriented specifications order sorted algebras abstract implementation and behavioral semantics The volume contains four invited surveys and twelve contributed papers all of which underwent a careful refereeing process

Relational and Algebraic Methods in Computer Science Uli Fahrenberg,Peter Jipsen,Michael Winter,2020-04-01 This book constitutes the proceedings of the 18th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2020 which was due to be held in Palaiseau France in April 2020 The conference was cancelled due to the COVID 19 pandemic The 20 full papers presented together with 3 invited abstracts were carefully selected from 29 submissions Topics covered range from mathematical foundations to applications as conceptual and methodological tools in computer science and beyond Handbook of Algebra M. Hazewinkel,2000-04-06 Handbook of Algebra **Relational and Algebraic Methods in Computer Science** Harrie de Swart,2011-05-20 This book constitutes the proceedings of the 12 International Conference on Relational and Algebraic Methods in Computer Science RAMICS 2011 held in Rotterdam The Netherlands in May June 2011 This conference merges the RelMICS Relational Methods in Computer Science and AKA Applications of Kleene Algebra conferences which have been a main forum for researchers who use the calculus of relations and similar algebraic formalisms as methodological and conceptual tools Relational and algebraic methods and software tools turn out to be useful for solving problems in social choice and game theory For that reason this conference included a special track on Computational Social Choice and Social Software The 18 papers included were carefully reviewed and selected from 27 submissions In addition the volume contains 2 invited tutorials and 5 invited talks East/West Database Workshop Johann Eder,Leonid A. Kalinichenko,2013-06-29 This volume results from the four day scientific Second International East West Database Workshop which took place 25th 28th September 1994 in Klagenfurt Austria continuing a series of workshops started in Kiev in 1990 Lecture Notes in Computer Science No 504 Springer Next Generation Information System Technology The aims of this workshop are twofold first to provide a forum for the presentation and in depth discussion of scientific achievements in the field of advanced databases that will effectively improve the building and use of future information systems second to establish and increase communication between research communities which were formerly separated and therefore had only rare opportunities to interact It should establish contacts between researchers from the East and from the West to make exchange of ideas possible and to trigger collaborations However it is not only political borders which change their perviousness as a result of or giving rise to new autonomies or new possibilities for interaction and collaboration The same happens with the borders between scientific areas in particular in the dynamically evolving areas of computer science Databases and programming languages are integrated in object oriented databases database and information retrieval

technology form together the basis for modern multimedia information systems Furthermore the borders between different information systems change and allow various forms of collaboration while maintaining different degrees of autonomy Heterogeneous and distributed databases are enabling technologies for these systems **Formal Methods and Software Engineering** Zhiming Liu,Jifeng He,2006-11-23 This book constitutes the refereed proceedings of the 8th International Conference on Formal Engineering Methods ICFEM 2006 held in Macao China in November 2006 The 38 revised full papers presented together with three keynote talks were carefully reviewed and selected from 108 submissions The papers address all current issues in formal methods and their applications in software engineering *Super-Recursive Algorithms* Mark Burgin,2006-12-21 Super Recursive Algorithms provides an accessible focused examination of the theory of super recursive algorithms and its ramifications for the computer industry networks artificial intelligence embedded systems and the Internet The book demonstrates how these algorithms are more appropriate as mathematical models for modern computers and how these algorithms present a better framework for computing methods in such areas as numerical analysis array searching and controlling and monitoring systems In addition a new practically oriented perspective on the theory of algorithms computation and automata as a whole is developed Problems of efficiency software development parallel and distributed processing pervasive and emerging computation computer architecture machine learning brain modeling knowledge discovery and intelligent systems are addressed This clear exposition motivated by numerous examples and illustrations serves researchers and advanced students interested in theory of computation and algorithms

Algebraic Approaches To Program Semantics Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Algebraic Approaches To Program Semantics**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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