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Mathematical Foundations of Programming Semantics

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Mathematical Foundations Of Programming Language Semantics Lecture Notes In Computer Science Volume 298

Robert R. Redfield

Mathematical Foundations Of Programming Language Semantics Lecture Notes In Computer Science Volume 298:

   Mathematical Foundations of Computer Science 1996 Wojciech Penczek,Andrzej Szalas,1996-08-07 This book constitutes the refereed proceedings of the 21st International Symposium on Mathematical Foundations of Computer Science MFCS 96 held in Crakow Poland in September 1996 The volume presents 35 revised full papers selected from a total of 95 submissions together with 8 invited papers and 2 abstracts of invited talks The papers included cover issues from the whole area of theoretical computer science with a certain emphasis on mathematical and logical foundations The 10 invited presentations are of particular value   Semantics of Programming Languages and Model Theory Manfred Droste,Yuri Gurevich,1993-09-10 Fourteen papers presented at the conference on title held at the International Conference and Research Center for Computer Science Schloss Dagstuhl June 1991 as well as a few others submitted by colleagues unable to attend reflect the interplay between algebra logic and semantics of programming languages Among the topics are a formal specification of PARLOG synthesis of nondeterministic asynchronous automata observable modules and power domain constructions the Smyth completion of a quasi uniform space current trends in the semantics of data flow and a theory of unary pairfunctions Annotation copyright by Book News Inc Portland OR   **Ten Years of Concurrency Semantics** Jacobus Willem Bakker,J. J. M. M. Rutten,Amsterdam Concurrency Group,1992 This collection of reprints describes a unified treatment of semantics covering a wide range of notions in parallel languages Included are several foundational and introductory papers developing the methodology of metric semantics studies on the comparative semantics of parallel object oriented and logic programming and papers on full abstraction and transition system specifications In addition links with process algebra and the theory of domain equations are established Throughout a uniform proof technique is used to relate operational and denotational models The approach is flexible in that both linear time branching time or bisimulation and intermediate models can be handled as well as schematic and interpreted elementary actions The reprints are preceded by an extensive introduction surveying related work on metric semantics   **Semantics of Programming Languages** Carl A. Gunter,1992 Semantics of Programming Languages exposes the basic motivations and philosophy underlying the applications of semantic techniques in computer science It introduces the mathematical theory of programming languages with an emphasis on higher order functions and type systems Designed as a text for upper level and graduate level students the mathematically sophisticated approach will also prove useful to professionals who want an easily referenced description of fundamental results and calculi Basic connections between computational behavior denotational semantics and the equational logic of functional programs are thoroughly and rigorously developed Topics covered include models of types operational semantics category theory domain theory fixed point denotational semantics full abstraction and other semantic correspondence criteria types and evaluation type checking and inference parametric polymorphism and subtyping All topics

are treated clearly and in depth with complete proofs for the major results and numerous exercises **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 Mathematical Foundations of Computer Science ,1991 **ZUM '98: The Z Formal Specification Notation** Jonathan P. Bowen,Andreas Fett,Michael G. Hinchey,2011-04-06 1 In a number of recent presentations most notably at FME 96 oneofthe foremost scientists in the eld of formal methods C A R Hoare has highlighted the fact that formal methods are not the only technique for producing reliable software This seems to have caused some controversy not least amongst formal methods practitioners How can one of the founding fathers of formal methods seemingly denounce the eld of research after over a quarter of a century of support This is a question that has been posed recently by some formal methods skeptics However Prof Hoare has not abandoned formal methods He is reiterating 2 albeitmoreradically his1987view thatmorethanonetoolandnotationwillbe requiredinthepractical industrialdevelopmentoflarge scalecomplexcomputer systems and not all of these tools and notations will be or even need be formal in nature Formalmethods arenotasolution butratheroneofaselectionoftechniques that have proven to be useful in the development of reliable complex systems and to result in hardware and software systems that can be produced on time and within a budget while satisfying the stated requirements After almostthree decades the time has come to view formalmethods in the context of overall industrial scale system development and their relationship to othertechniquesandmethods Weshouldnolongerconsidertheissueofwhether we are pro formal or anti formal but rather the degree of formality if any that we need to support in system development This is a goal of ZUM 98 the 11th International Conference of Z Users held for the rst time within continental Europe in the city of Berlin Germany Computer Science Logic European Association for Computer Science Logic. Conference,2001-08-29 This book constitutes the refereed proceedings of the 15th International Workshop on Computer Science Logic CSL 2001 held as the 10th Annual Conerence of the EACSL in Paris France in September 2001 The 39 revised full papers presented together with two invited papers were carefully reviewed and selected

from 91 submissions The papers are organized in topical sections on linear logic descriptive complexity semantics higher order programs model logics verification automata lambda calculus induction equational calculus and constructive theory of types   **Computer Science Logic** Laurent Fribourg,2003-06-30 This book constitutes the refereed proceedings of the 15th International Workshop on Computer Science Logic CSL 2001 held as the 10th Annual Conerence of the EACSL in Paris France in September 2001 The 39 revised full papers presented together with two invited papers were carefully reviewed and selected from 91 submissions The papers are organized in topical sections on linear logic descriptive complexity semantics higher order programs model logics verification automata lambda calculus induction equational calculus and constructive theory of types   **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   **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 Properties of Finite Automata and Applications** Jean E. Pin,1989-10-11 The volume contains the proceedings of the 16th Spring School on Theoretical Computer Science held in Ramatuelle France in May 1988 It is a unique combination of research level articles on various aspects of the theory of finite automata and its applications Advances made in the last five years on the mathematical foundations form the first part of the book The second part is devoted to the important problems of the theory including star height concatenation hierarchies and connections with logic and word problems The last part presents a large variety of possible applications number theory distributed systems algorithms on strings theory of codes complexity of boolean circuits and others   Z User Workshop, Oxford 1990 J.E. Nicholls,2013-11-11   **Z User Workshop, York 1991** J. E.

Nicholls,2012-12-06 In ordinary mathematics an equation can be written down which is syntactically correct but for which no solution exists For example consider the equation x x 1 defined over the real numbers there is no value of x which satisfies it Similarly it is possible to specify objects using the formal specification language Z 3 4 which can not possibly exist Such specifications are called inconsistent and can arise in a number of ways Example 1 The following Z specification of a functionf from integers to integers f x 1 x O fx x 1 i f x 1 x O fx x 2 ii is inconsistent because axiom i gives f 0 1 while axiom ii gives f 0 2 This contradicts the fact that f was declared as a function that is f must have a unique result when applied to an argument Hence no suchfexists Furthermore iff 0 1 andfO 2 then 1 2 can be deduced From 1 2 anything can be deduced thus showing the danger of an inconsistent specification Note that all examples and proofs start with the word Example or Proof and end with the symbol 1   *CSL'88* Egon Börger,Hans Kleine Büning,Michael M. Richter,1989-09-06 This volume contains the papers which were presented at the second workshop Computer Science Logic held in Duisburg FRG October 3 7 1988 These proceedings cover a wide range of topics both from theoretical and applied areas of computer science More specifically the papers deal with problems arising at the border of logic and computer science e g in complexity data base theory logic programming artificial intelligence and concurrency The volume should be of interest to all logicians and computer scientists working in the above fields   Proof, Language, and Interaction Robin Milner,2000 This collection of essays reflects the breadth of research in computer science Following a biography of Robin Milner it contains sections on semantic foundations programming logic programming languages concurrency and mobility   **Algorithms and Data Structures** Frank Dehne,Jörg-Rüdiger Sack,Nicola Santoro,1991-07-24 This volume presents the proceedings of the Second Workshop on Algorithms and Data Structures WADS 91 held at Carleton University in Ottawa The workshop was organized by the School of Computer Science at Carleton University The workshop alternates with the Scandinavian Workshop on Algorithm Theory SWAT continuing the tradition of SWAT 88 LNCS Vol 318 WADS 89 LNCS Vol 382 and SWAT 90 LNCS Vol 447 From 107 papers submitted 37 were selected for presentation at the workshop In addition there were 5 invited presentations   *Algebraic Methods: Theory, Tools and Applications* Martin Wirsing,Jan A. Bergstra,1989-09-20   Finite Representations of CCS and TCSP Programs by Automata and Petri Nets Dirk A. Taubner,1989-08-09 This work relates different approaches for the modelling of parallel processes On the one hand there are the so called process algebras or abstract programming languages with Milner s Calculus of Communicating Systems CCS and the theoretical version of Hoare s Communicating Sequential Processes CSP as main representatives On the other hand there are machine models i e the classical finite state automata transition systems for which however more discriminating notions of equivalence than equality of languages are used and secondly there are differently powerful types of Petri nets namely safe and general place transition nets respectively and predicate transition nets Within a uniform framework the syntax and the operational semantics of CCS and TCSP are explained We consider both Milner s well known interleaving semantics which is based on infinite transition

systems as well as the new distributed semantics introduced by Degano et al which is based on infinite safe nets The main part of this work contains three syntax driven constructions of transition systems safe nets and predicate transition nets respectively Each of them is accompanied by a proof of consistency Due to intrinsic limits which are also investigated here neither for transition systems and finite nets nor for general nets does a finite consistent representation of all CCS and TCSP programs exist However sublanguages which allow finite representations are discerned On the other hand the construction of predicate transition nets is possible for all CCS programs in which every choice and every recursive body starts sequentially   Distributed Algorithms Jean-Claude Bermond,1989-09-06 This book includes the papers presented at the Third International Workshop on Distributed Algorithms organized at La Colle sur Loup near Nice France September 26 28 1989 which followed the first two successful international workshops in Ottawa 1985 and Amsterdam 1987 This workshop provided a forum for researchers and others interested in distributed algorithms on communication networks graphs and decentralized systems The aim was to present recent research results explore directions for future research and identify common fundamental techniques that serve as building blocks in many distributed algorithms Papers describe original results in all areas of distributed algorithms and their applications including distributed combinatorial algorithms distributed graph algorithms distributed algorithms for control and communication distributed database techniques distributed algorithms for decentralized systems fail safe and fault tolerant distributed algorithms distributed optimization algorithms routing algorithms design of network protocols algorithms for transaction management composition of distributed algorithms and analysis of distributed algorithms

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