A Theory of Programming Language Semantics

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A Theory Of Programming Language Semantics

Robert Milne,Christopher Strachey

A Theory Of Programming Language Semantics:

A Theory of Programming Language Semantics Robert Milne,Christopher Strachey,1976 This book explores how to formalize semantics in various programming languages A Theory of Programming Language Semantics: Standard semantics, store semantics, stack semantics Robert Milne,Christopher Strachey,1976 **Introduction to the Theory of Programming Languages** Gilles Dowek,Jean-Jacques Lévy,2010-12-09 The design and implementation of programming languages from Fortran and Cobol to Caml and Java has been one of the key developments in the management of ever more complex computerized systems Introduction to the Theory of Programming Languages gives the reader the means to discover the tools to think design and implement these languages It proposes a unified vision of the different formalisms that permit definition of a programming language small steps operational semantics big steps operational semantics and denotational semantics emphasising that all seek to define a relation between three objects a program an input value and an output value These formalisms are illustrated by presenting the semantics of some typical features of programming languages functions recursivity assignments records objects showing that the study of programming languages does not consist of studying languages one after another but is organized around the features that are present in these various languages The study of these features leads to the development of evaluators interpreters and compilers and also type inference algorithms for small languages **A Theory of Programming Language Semantics: Indices and appendices, fundamental concepts, mathematical foundations** Robert Milne,Christopher Strachey,1976 **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 **A theory of Programming language semantics part b: standard semantics, store semantics, stack semantics** Robert Milne,Christopher Strachey,1976 **A Theory of Programming Language Semantics** Robert Milne,Christopher Strachey,1976 **Theories of Programming Languages** John C. Reynolds,1998-10-13 First published in 1998 this textbook is a broad but rigourous survey of the theoretical basis for the design definition and implementation of programming languages and of systems for specifying and proving programme behaviour Both imperative and functional programming are covered as well as the ways of integrating these aspects into more general languages Recognising a unity of technique beneath the diversity of research in programming languages the author presents an integrated treatment of the basic principles of the subject He identifies the relatively small number of concepts such as compositional semantics binding

structure domains transition systems and inference rules that serve as the foundation of the field Assuming only knowledge of elementary programming and mathematics this text is perfect for advanced undergraduate and beginning graduate courses in programming language theory and also will appeal to researchers and professionals in designing or implementing computer languages A theory of programming language semantics part a indices and appendices, fundamental concepts, mathematical foundations Robert Milne,Christopher Strachey,1976 *A THEORY OF PROGRAMMING LANGUAGE SEMANTICS. PT. B. STANDARD SEMANTICS, STORE SEMANTICS, STACK SEMANTICS.* R. Milne,C. Starchey,1976

Formal Semantics and Pragmatics for Natural Language Querying James Clifford,2004-03-25 Connects the semantics of databases to that of natural language and links them through a common view of the semantics of time

Mathematical Foundations of Programming Language Semantics Michael Main,Austin Melton,Michael Mislove,David Schmidt,1988-03-09 This volume is the proceedings of the 3rd Workshop on the Mathematical Foundations of Programming Language Semantics held at Tulane University New Orleans Louisiana April 8 10 1987 The 1st Workshop was at Kansas State University Manhattan Kansas in April 1985 see LNCS 239 and the 2nd Workshop with a limited number of participants was at Kansas State in April 1986 It was the intention of the organizers that the 3rd Workshop survey as many areas of the Mathematical Foundations of Programming Language Semantics as reasonably possible The Workshop attracted 49 submitted papers from which 28 papers were chosen for presentation The papers ranged in subject from category theory and Lambda calculus to the structure theory of domains and power domains to implementation issues surrounding 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 **A THEORY OF PROGRAMMING LANGUAGE SEMANTICS. PT. A. INDICES AND APPENDICES, FUNDAMENTAL CONCEPTS, MATHEMATICAL FOUNDATIONS.** R. Milne,C. Strachey,1976

Theoretical Aspects of Object-oriented Programming Carl A. Gunter,John C. Mitchell,1994 Although the theory of object oriented programming languages is far from complete this book brings together the most important contributions to its development to date focusing in particular on how advances in type systems and semantic models can contribute to new

language designs The fifteen chapters are divided into five parts Objects and Subtypes Type Inference Coherence Record Calculi and Inheritance The chapters are organized approximately in order of increasing complexity of the programming language constructs they consider beginning with variations on Pascal and Algol like languages developing the theory of illustrative record object models and concluding with research directions for building a more comprehensive theory of object oriented programming languages Part I discusses the similarities and differences between objects and algebraic style abstract data types and the fundamental concept of a subtype Parts II IV are concerned with the record model of object oriented languages Specifically these chapters discuss static and dynamic semantics of languages with simple object models that include a type or class hierarchy but do not explicitly provide what is often called dynamic binding Part V considers extensions and modifications to record object models moving closer to the full complexity of practical object oriented languages Carl A Gunter is Professor in the Department of Computer and Information Science at the University of Pennsylvania John C Mitchell is Professor in the Department of Computer Science at Stanford University *Understanding Programming Languages* Cliff B. Jones,2020-11-17 This book is about describing the meaning of programming languages The author teaches the skill of writing semantic descriptions as an efficient way to understand the features of a language While a compiler or an interpreter offers a form of formal description of a language it is not something that can be used as a basis for reasoning about that language nor can it serve as a definition of a programming language itself since this must allow a range of implementations By writing a formal semantics of a language a designer can yield a far shorter description and tease out analyse and record design choices Early in the book the author introduces a simple notation a meta language used to record descriptions of the semantics of languages In a practical approach he considers dozens of issues that arise in current programming languages and the key techniques that must be mastered in order to write the required formal semantic descriptions The book concludes with a discussion of the eight key challenges delimiting a language concrete representation delimiting the abstract content of a language recording semantics deterministic languages operational semantics non determinism context dependency modelling sharing modelling concurrency and modelling exits The content is class tested and suitable for final year undergraduate and postgraduate courses It is also suitable for any designer who wants to understand languages at a deep level Most chapters offer projects some of these quite advanced exercises that ask for complete descriptions of languages and the book is supported throughout with pointers to further reading and resources As a prerequisite the reader should know at least one imperative high level language and have some knowledge of discrete mathematics notation for logic and set theory The Denotational Description of Programming Languages M.J.C. Gordon,2012-12-06 This book explains how to formally describe programming languages using the techniques of denotational semantics The presentation is designed primarily for computer science students rather than for say mathematicians No knowledge of the theory of computation is required but it would help to have some acquaintance with high level

programming languages The selection of material is based on an undergraduate semantics course taught at Edinburgh University for the last few years Enough descriptive techniques are covered to handle all of ALGOL 50 PASCAL and other similar languages Denotational semantics combines a powerful and lucid descriptive notation due mainly to Strachey with an elegant and rigorous theory due to Scott This book provides an introduction to the descriptive techniques without going into the background mathematics at all In some ways this is very unsatisfactory reliable reasoning about semantics e g correctness proofs cannot be done without knowing the underlying model and so learning semantic notation without its model theory could be argued to be pointless My own feeling is that there is plenty to be gained from acquiring a purely intuitive understanding of semantic concepts together with manipulative competence in the notation For these equip one with a powerful conceptua1 framework a framework enabling one to visualize languages and constructs in an elegant and machine independent way Perhaps a good analogy is with calculus for many practical purposes e g engineering calculations an intuitive understanding of how to differentiate and integrate is all that is needed *The Structure of Typed Programming Languages* David A. Schmidt,1994 The text is unique in its tutorial presentation of higher order lambda calculus and intuitionistic type theory *Programming Languages: Implementations, Logics, and Programs* S.Doaitse Swierstra,1996-09-11 This book constitutes the refereed proceedings of the Eighth International Symposium on Programming Languages Implementations Logics and Programs PLILP 96 held in conjunction with ALP and SAS in Aachen Germany in September 1996 The 30 revised full papers presented in the volume were selected from a total of 97 submissions also included are one invited contribution by Lambert Meerlens and five posters and demonstrations The papers are organized in topical sections on typing and structuring systems program analysis program transformation implementation issues concurrent and parallel programming tools and programming environments lambda calculus and rewriting constraints and deductive database languages *Descriptional Complexity of Formal Systems* Martin Kutrib,Nelma Moreira,Rogério Reis,2012-07-09 This book constitutes the refereed proceedings of the 14th International Workshop of Descriptional Complexity of Formal Systems 2012 held in Braga Portugal in July 2012 The 20 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 33 submissions The topics covered are automata grammars languages and related systems various measures and modes of operations e g determinism and nondeterminism trade offs between computational models and or operations succinctness of description of finite objects state explosion like phenomena circuit complexity of Boolean functions and related measures resource bounded or structure bounded environments frontiers between decidability and undecidability universality and reversibility structural complexity formal systems for applications e g software reliability software and hardware testing modeling of natural languages nature motivated bio inspired architectures and unconventional models of computing Kolmogorov complexity

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