

The
Semantics
of
PROGRAMMING
LANGUAGES

An Elementary Introduction
using Structural Operational Semantics

Matthew Hennessy



WILEY

Semantics Of Programming Languages An Elementary Introduction Using Structural Operational Semantics

Roberto Bruni, Ugo Montanari



Semantics Of Programming Languages An Elementary Introduction Using Structural Operational Semantics:

The Semantics of Programming Languages Matthew Hennessy, 1990 Arithmetic expressions A simple functional language More languages Computation semantics Parallelism Bibliography Index [The Formal Semantics of Programming Languages](#) Glynn Winskel, 1993-02-05 The Formal Semantics of Programming Languages provides the basic mathematical techniques necessary for those who are beginning a study of the semantics and logics of programming languages These techniques will allow students to invent formalize and justify rules with which to reason about a variety of programming languages Although the treatment is elementary several of the topics covered are drawn from recent research including the vital area of concurrency The book contains many exercises ranging from simple to miniprojects Starting with basic set theory structural operational semantics is introduced as a way to define the meaning of programming languages along with associated proof techniques Denotational and axiomatic semantics are illustrated on a simple language of while programs and full proofs are given of the equivalence of the operational and denotational semantics and soundness and relative completeness of the axiomatic semantics A proof of Godel's incompleteness theorem which emphasizes the impossibility of achieving a fully complete axiomatic semantics is included It is supported by an appendix providing an introduction to the theory of computability based on while programs Following a presentation of domain theory the semantics and methods of proof for several functional languages are treated The simplest language is that of recursion equations with both call by value and call by name evaluation This work is extended to languages with higher and recursive types including a treatment of the eager and lazy lambda calculi Throughout the relationship between denotational and operational semantics is stressed and the proofs of the correspondence between the operation and denotational semantics are provided The treatment of recursive types one of the more advanced parts of the book relies on the use of information systems to represent domains The book concludes with a chapter on parallel programming languages accompanied by a discussion of methods for specifying and verifying nondeterministic and parallel programs *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 [Membrane](#)

Computing Rudolf Freund, 2006-01-11 This book constitutes the thoroughly refereed extended postproceedings of the 6th International Workshop on Membrane Computing WMC 2005 held in Vienna Austria in July 2005 The 20 revised full papers presented together with 5 invited papers went through two rounds of reviewing and improvement The papers in this volume cover all the main directions of research in membrane computing ranging from theoretical topics in mathematics and computer science to application issues especially in biology More specifically these papers present research on topics such as computational power and complexity classes new types of P systems relationships to Petri nets quantum computing and brane calculi determinism vs nondeterminism hierarchies the size of small families algebraic approaches and designing polynomial solutions to NP complete problems through the use of membrane systems

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□, 2012-04 1 2 3 4 5 6 7 A Semantics with Applications: An Appetizer Hanne Riis Nielson, Flemming Nielson, 2007-04-18 Semantics will play an important role in the future development of software systems and domain specific languages This book provides a needed introductory presentation of the fundamental ideas behind these approaches stresses their relationship by formulating and proving the relevant theorems and illustrates the applications of semantics in computer science Historically important application areas are presented together with some exciting potential applications The text investigates the relationship between various methods and describes some of the main ideas used illustrating these by means of interesting applications The book provides a rigorous introduction to the main approaches to formal semantics of programming languages

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 **Handbook of Process Algebra** J.A. Bergstra,A. Ponse,S.A. Smolka,2001-03-16 Process Algebra is a formal description technique for complex computer systems especially those involving communicating concurrently executing components It is a subject that concurrently touches many topic areas of computer science and discrete math including system design notations logic concurrency theory specification and verification operational semantics algorithms complexity theory and of course algebra This Handbook documents the fate of process algebra since its inception in the late 1970 s to the present It is intended to serve as a reference source for researchers students and system designers and engineers interested in either the theory of process algebra or in learning what process algebra brings to the table as a formal system description and verification technique The Handbook is divided into six parts spanning a total of 19 self contained Chapters The organization is as follows Part 1 consisting of four chapters covers a broad swath of the basic theory of process algebra Part 2 contains two chapters devoted to the sub specialization of process algebra known as finite state processes while the three chapters of Part 3 look at infinite state processes value passing processes and mobile processes in particular Part 4 also three chapters in length explores several extensions to process algebra including real time probability and priority The four chapters of Part 5 examine non interleaving process algebras while Part 6 s three chapters address process algebra tools and applications **CIMOSA: Open System**

Architecture for CIM ESPRIT Consortium AMICE,2012-12-06 Enterprise operation efficiency is seriously constrained by the inability to provide the right information in the right place at the right time In spite of significant advances in technology it is still difficult to access information used or produced by different applications due to the hardware and software incompatibilities of manufacturing and information processing equipment But it is this information and operational knowledge which makes up most of the business value of the enterprise and which enables it to compete in the marketplace Therefore sufficient and timely information access is a prerequisite for its efficient use in the operation of enterprises It is the aim of the ESPRIT project AMICE to make this knowledge base available enterprise wide During several ESPRIT contracts the project has developed and validated CIMOSA Open System Architecture for CIM The CIMOSA concepts provide operation structuring based on cooperating processes Enterprise operations are represented in terms of functionality and dynamic behaviour control flow Information needed and produced as well as resources and organisational aspects relevant in the course of the operation are modelled in the process model However the different aspects may be viewed separately for additional structuring and detailing during the enterprise engineering process *Domain Modeling and the Duration*

Calculus Chris George,2007-08-28 This book presents thoroughly revised tutorial papers based on lectures given by leading researchers at the International Training School on Domain Modeling and the Duration Calculus held in Shanghai China as an associated event of ICTAC 2007 Topics addressed in detail are development of real time systems domain engineering using abstract modeling the area of duration calculus and formal methods like language description using the operational

semantics approach Mathematical Methods in Program Development Manfred Broy, Birgit Schieder, 2012-12-06 Modern information processing systems show such complex properties as distribution parallelism interaction time dependency and nondeterminism For critical applications mathematical methods are needed to model the systems and to support their development and validation Impressive progress in mathematical methods for programming software systems makes it possible to think about unifying the different approaches This book gives a comprehensive overview of existing methods and presents some of the most recent results in applying them The main topics are advanced programming techniques foundations of systems engineering mathematical support methods and application of the methods The approaches presented are illustrated by examples and related to other approaches **Information Security and Cryptology - ICISC 2005** Dongho Won, Seungjoo Kim, 2006-04-18 The 8th International Conference on Information Security and Cryptology was organized by the Korea Institute of Information Security and Cryptology KIISC and sponsored by the Ministry of Information and Communication of Korea MIC *Algebraic Methodology and Software Technology* Helene Kirchner, Christophe Ringeissen, 2003-08-02 This volume contains the proceedings of AMAST 2002 the 9th International Conference on Algebraic Methodology and Software Technology held during September 9 13 2002 in Saint Gilles les Bains Réunion Island France The major goal of the AMAST conferences is to promote research that may lead to setting software technology on a firm mathematical basis This goal is achieved through a large international cooperation with contributions from both academia and industry Developing a software technology on a mathematical basis produces software that is a correct and the correctness can be proved mathematically b safe so that it can be used in the implementation of critical systems c portable i e independent of computing platforms and language generations d evolutionary i e it is self adaptable and evolves with the problem domain All previous AMAST conferences which were held in Iowa City 1989 1991 Twente 1993 Montreal 1995 Munich 1996 Sydney 1997 Manaus 1999 and Iowa City 2000 made contributions to the AMAST goals by reporting and disseminating academic and industrial achievements within the AMAST area of interest During these meetings AMAST attracted an international following among researchers and practitioners interested in software technology programming methodology and their algebraic and logical foundations *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 **Higher Order Logic Theorem Proving and Its Applications** Thomas F. Melham, 1994-09-07 This volume presents the proceedings of the 7th International Workshop on Higher Order Logic Theorem Proving and Its Applications held in Valetta Malta in September 1994 Besides 3 invited papers the proceedings contains 27 refereed papers selected from 42 submissions In total the book presents many new results by leading researchers working on the design and applications of theorem provers for higher order logic In particular this book gives a thorough state of the art report on applications of the HOL system one of the most

widely used theorem provers for higher order logic **Practical Foundations of Mathematics** Paul Taylor,1999-05-13
 Practical Foundations collects the methods of construction of the objects of twentieth century mathematics Although it is mainly concerned with a framework essentially equivalent to intuitionistic Zermelo Fraenkel logic the book looks forward to more subtle bases in categorical type theory and the machine representation of mathematics Each idea is illustrated by wide ranging examples and followed critically along its natural path transcending disciplinary boundaries between universal algebra type theory category theory set theory sheaf theory topology and programming Students and teachers of computing mathematics and philosophy will find this book both readable and of lasting value as a reference work *Models of Computation* Roberto Bruni,Ugo Montanari,2017-04-03 This book presents in their basic form the most important models of computation their basic programming paradigms and their mathematical descriptions both concrete and abstract Each model is accompanied by relevant formal techniques for reasoning on it and for proving some properties After preliminary chapters that introduce the notions of structure and meaning semantic methods inference rules and logic programming the authors arrange their chapters into parts on IMP a simple imperative language HOFL a higher order functional language concurrent nondeterministic and interactive models and probabilistic stochastic models The authors have class tested the book content over many years and it will be valuable for graduate and advanced undergraduate students of theoretical computer science and distributed systems and for researchers in this domain Each chapter of the book concludes with a list of exercises addressing the key techniques introduced solutions to selected exercises are offered at the end of the book **ML for the Working Programmer** Lawrence C. Paulson,1996-06-28 Software Programming Languages **ML for the Working Programmer** Larry C. Paulson,1996-06-28 The new edition of this successful and established textbook retains its two original intentions of explaining how to program in the ML language and teaching the fundamentals of functional programming The major change is the early and prominent coverage of modules which are extensively used throughout In addition the first chapter has been totally rewritten to make the book more accessible to those without experience of programming languages The main features of new Standard Library for the revised version of ML are described and many new examples are given while references have also been updated Dr Paulson has extensive practical experience of ML and has stressed its use as a tool for software engineering the book contains many useful pieces of code which are freely available via the Internet from the author He shows how to use lists trees higher order functions and infinite data structures Many illustrative and practical examples are included Efficient functional implementations of arrays queues priority queues etc are described Larger examples include a general top down parser a lambda calculus reducer and a theorem prover The combination of careful explanation and practical advice will ensure that this textbook continues to be the preferred text for many courses on ML **Recent Advances In Information Science And Technology** Nikos E Mastorakis,1998-10-12
 Recent Advances in Information Science and Technology brings you a balanced state of the art presentation of the latest

concepts methods algorithms techniques procedures and applications of the fascinating field of Computer Science and Engineering Written by eminent leading international experts the contributors provide up to date aspects of topics discussed and present fresh original insights into their own experience with Information Science and Technology This rich anthology of papers which compose this volume contains the latest developments and reflects the experience of many eminent researchers working in different environments universities research centers and industry The book is composed of five parts Software Engineering in which new trends and recent scientific results in software engineering data structures algorithms knowledge based systems VLSI design computer languages and industrial computer applications are presented Signal Processing in which modern topics in signal processing identification recognition speech processing and detection are included Multi Dimensional m D Systems Theory and Applications which contains new research results in m D systems theory and impressive applications of multidimensional systems mainly in signal processing Communication Systems containing modern topics of communication as Digital systems of communication computer networks theory ATM networks optical networks hybrid fiber coaxial networks Internet etc Modern Numerical Techniques and Related Topics which covers some aspects of the modern computation science and technology

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