

*The*  
*Semantics*  
*of*  
PROGRAMMING  
LANGUAGES

An Elementary Introduction  
using Structural Operational Semantics

Matthew Hennessy

 WILEY

419

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

**Albert A Gayle**



## **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 fall 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 lan guages 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

**Transitions and**

**Trees** Hans Hüttel, 2010-04-29 Structural operational semantics is a simple yet powerful mathematical theory for describing the behaviour of programs in an implementation independent manner This book provides a self contained introduction to structural operational semantics featuring semantic definitions using big step and small step semantics of many standard programming language constructs including control structures structured declarations and objects parameter mechanisms and procedural abstraction concurrency nondeterminism and the features of functional programming languages Along the way the text introduces and applies the relevant proof techniques including forms of induction and notions of semantic equivalence including bisimilarity Thoroughly class tested this book has evolved from lecture notes used by the author over a 10 year period at Aalborg University to teach undergraduate and graduate students The result is a thorough introduction that makes the subject clear to students and computing professionals without sacrificing its rigour No experience with any specific programming language is required

*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

**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

**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

*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

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

**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

**Semantics with Applications** Hanne Riis Nielson, Flemming Nielson, 1992 The purpose of this book is to present the fundamental ideas behind operational denotational and axiomatic semantics stress their relationship by formulating and proving relevant theorems and to illustrate the applicability of formal semantics as a tool in computer science The bulk of the text concentrates on a small core language of while programs for which the three approaches are developed to roughly the same level of sophistication To demonstrate the applicability of formal semantics the authors show how to use semantics for validating prototype implementations of programming languages how to use semantics for verifying analyses used in more advanced implementations of programming languages and how to use semantics for verifying useful program properties including information about execution time The reader should have some experience of functional programming and the BNF style of specifying the syntax of programming languages

**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

**ACM SIGPLAN Notices**, 2004-03

**Fundamenta Informaticae** Polskie Towarzystwo Matematyczne, 2004

**Reasoning with Inductively Defined Relations in the HOL Theorem Prover** Juanito Camilleri, Tom F. Melham, 1992 Abstract Inductively defined relations are among the basic mathematical tools of computer science Examples include evaluation and computation relations in structural operational semantics labelled transition relations in process algebra semantics inductively defined typing judgements and proof systems in general This paper describes a set of HOL theorem proving tools for reasoning about such inductively defined relations We also describe a suite of worked examples using these tools

**Transitions and Trees** Hans Hüttel, 2014-05-14 A rigorous self contained introduction to the theory of operational semantics of programming languages and its use

Algebraic Methodology and Software Technology, 2002

**Tool Support for Logics of Programs** Lawrence C. Paulson, 1996

**The Inductive Approach to Verifying Cryptographic Protocols** Lawrence C. Paulson, 1998 Abstract Informal arguments that cryptographic protocols are secure can be made rigorous using inductive definitions The approach is based on ordinary predicate calculus and copes with infinite state systems Proofs are generated using Isabelle HOL The human effort required to analyze a protocol can be as little as a week or two yielding a proof script that takes a few minutes to run Protocols are inductively defined as sets of traces A trace is a list of communication events perhaps comprising many interleaved protocol runs Protocol descriptions incorporate attacks and accidental losses The model spy knows some private keys and can forge messages using components decrypted from previous traffic Three protocols are analyzed below Otway Rees which uses shared key encryption Needham Schroeder which uses public key encryption and a recursive protocol 9 which is of variable length One can prove that event  $ev$  always precedes event  $ev'$  or that property  $P$  holds provided  $X$  remains secret Properties can be proved from the viewpoint of the

various principals say if A receives a final message from B then the session key it conveys is good  
**Computing** ,2005

**Membrane**

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