

Action Semantics

- Examples of actions:

- | give 1

- then

- | give product(2,the given integer)

- | bind "x" to 10

- hence

- | give sum(1,the integer bound to "x")

- | allocate a cell

- then

- | store 10 in the given cell

Action Semantics

David Anthony Watt, Muffy Thomas



Action Semantics:

Action Semantics Peter Mosses,1992 Action semantics is a novel approach to the formal description of programming languages Its abstractness is at an intermediate level between that of denotational and operational semantics Action semantics has considerable pragmatic advantage over all previous approaches especially regarding modularity of descriptions In this volume Dr Peter Mosses gives a thorough introduction to action semantics and provides substantial illustrations of its use

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Semantics and Algebraic Specification Jens Palsberg,2009-09-19 This Festschrift volume published to honor Peter D Mosses on the occasion of his 60th birthday includes 17 invited chapters by many of Peter s coauthors collaborators close colleagues and former students Peter D Mosses is known for his many contributions in the area of formal program semantics In particular he developed action semantics a combination of denotational operational and algebraic semantics The presentations given on a symposium in his honor in Udine Italy on September 10 2009 were on subjects related to Peter s many technical contributions and they were a tribute to his lasting impact on the field Topics addressed by the papers are action semantics security policy design colored petri nets order sorted parameterization and induction object oriented action semantics structural operational semantics model transformations the scheme programming language type checking action algebras and denotational semantics

An Introduction to Action Semantics Aarhus Universitet. Regionale EDB-center,Peter D. Mosses,1991 Abstract Formal semantics is a topic of major importance in the study of programming languages Its applications include documenting language design establishing standards for implementations reasoning about programs and generating compilers These notes introduce action semantics a recently developed framework for formal semantics The primary aim of action semantics is to allow useful semantic descriptions of realistic programming languages

Trends in Enterprise Application Architecture Dirk Draheim,Gerald Weber,2007-10-13 This book constitutes the thoroughly refereed postproceedings of the 2nd International Conference on Trends in Enterprise Application Architecture TEAA 2006 It identifies issues in enterprise application architecture and proposes as well as evaluates a solution Topics of interest include model driven architecture enterprise development environments service oriented architecture data integration enterprise grid computing load balancing and enterprise component platforms

[Sensorimotor Foundations of Higher Cognition](#) Patrick Haggard,Yves

Rossetti, Mitsuo Kawato, 2008 The first section deals with the common neural processes for primary and cognitive processes It examines the key neural systems and computational architectures at the interface between cognition sensation and action

The Action Semantics Description Tool Jan Reher, 1989 *Formal Syntax and Semantics of Programming Languages*

Kenneth Slonneger, Barry L. Kurtz, 1995 With this book readers with a basic grounding in discrete mathematics will be able to understand the practical applications of these difficult concepts The book presents the typically difficult subject of formal methods in an informal easy to follow manner A laboratory component is integrated throughout the text *Programming Language Syntax and Semantics*

David Anthony Watt, Muffy Thomas, 1991 Contains a treatment of syntax and semantics and coverage of several complementary semantic methods with emphasis on using formal specification There is brief coverage of underlying theory and an introduction to action semantics a new method of specifying semantics **Action Semantics-Directed Prototyping**

Kyung-Goo Doh, David A. Schmidt, 1992 Abstract We present a methodology based on Mosses Watt's action semantics for compiler synthesis Each action in action semantics is assigned specific analysis functions such as a typing function and a binding time function When a language is given an action semantics the typing and binding time functions for the individual actions compose into typing and binding time analyses for the language these are implemented as the type checker and static semantics processor respectively in the synthesized compiler Other analyses can be similarly formalized and implemented We show a sample language semantics and its synthesized compiler and we describe the compiler synthesizer that we have developed **ESOP ...**, 1990 **The Semantics of -mentum, -bulum, and -culum**

Edmund Dresser Cressman, 1915 **Semantic Prototyping: Implementing Action Semantics in Standard ML.** University of Iowa. Dept. of Computer Science, Ruth Ruei, Kenneth Slonneger, 1993 *Semantics in Action*

Toshiyuki Ogihara, 2026-03-17 Equips students to analyze meaning across languages using clear tools and rich examples Semantics in Action provides an accessible yet rigorous introduction to natural language semantics Organized around core semantic phenomena such as quantification relative clauses modality events tense and aspect this concise textbook builds skills through detailed compositional analyses and carefully chosen illustrative examples Author Toshiyuki Ogihara a leading voice in cross linguistic semantic theory and research anchors the discussion in English and supplements it with Japanese examples Balancing clarity with linguistic diversity each chapter offers lucid explanations guided analyses and exercises that help students develop a precise understanding of semantic theory and its application Ogihara emphasizes the compositional nature of meaning the syntax semantics interface and the utility of semantic reasoning in linguistic research Providing the foundation to engage deeply with natural language semantics either as part of formal coursework or as preparation for more advanced research Semantics in Action Offers a step by step approach to compositional semantic analysis with simple well chosen examples Integrates English as the primary object language with targeted Japanese data to highlight theoretical contrasts Supports cross linguistic analysis especially for students whose native language differs structurally from English

Includes exercises charts and figures and suggestions for further reading throughout Equipping students with both theoretical insight and practical tools for independent research Semantics in Action is ideal for advanced undergraduates or beginning graduate students enrolled in courses such as Formal Semantics and Natural Language Semantics Annual Symposium on Theoretical Aspects of Computer Science ,1989 *Proceedings of the Conference on Domain-Specific Languages, October 15-17, 1997, Santa Barbara, California* USENIX Association,1997 The Unified Modeling Language ,2003 **ESOP '90** Neil D. Jones,1990 This volume presents the proceedings of a conference on programming and programming languages It contains original research contributions addressing fundamental issues and important developments in the design specification and implementation of programming languages and systems Topics include Program development specification methodology tools environments Programming language concepts types data abstraction parallelism real time Language implementation techniques compilers interpreters abstract machine design optimization Programs as data objects abstract interpretation program transformation partial evaluation Programming styles imperative functional predicative object oriented Publisher s website **The Action Semantics Description Tool** Jan Reher,Eld Zierau,1989 *STACS 89* B. Monien,Robert Cori,1989 This volume contains the presentations of the Sixth Symposium on Theoretical Aspects of Computer Science STACS 89 held at the University of Paderborn February 16 18 1989 In addition to papers presented in the regular program the volume contains abstracts of software systems demonstrations which were included in this conference series in order to show applications of research results in theoretical computer science The papers are grouped into the following thematic sections computational geometry automata theory and formal languages semantics of programming languages parallel algorithms graph algorithms complexity structures fault tolerance completeness distributed computing and concurrency

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Action Semantics Introduction

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