

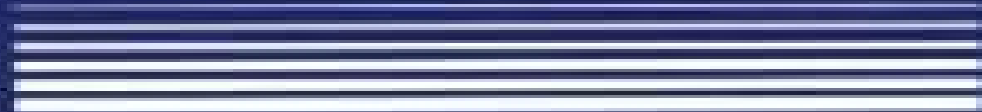
PROGRESS IN THEORETICAL COMPUTER SCIENCE



Semantics of Type Theory

Correctness, Completeness
and Independence Results

Thomas Streicher



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Semantics Of Type Theory Correctness

**Alain Lecomte, Francois Lamarche, Guy
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Semantics of Type Theory Thomas Streicher, 2012-06-14 Typing plays an important role in software development Types can be considered as weak specifications of programs and checking that a program is of a certain type provides a verification that a program satisfies such a weak specification By translating a problem specification into a proposition in constructive logic one can go one step further the effectiveness and uniformity of a constructive proof allows us to extract a program from a proof of this proposition Thus by the proposition as types paradigm one obtains types whose elements are considered as proofs Each of these proofs contains a program correct w r t the given problem specification This opens the way for a coherent approach to the derivation of provably correct programs These features have led to a typeful programming style where the classical typing concepts such as records or static arrays are enhanced by polymorphic and dependent types in such a way that the types themselves get a complex mathematical structure Systems such as Coq and Huet's Calculus of Constructions are calculi for computing within extended type systems and provide a basis for a deduction oriented mathematical foundation of programming On the other hand the computational power and the expressive impredicativity of these systems makes it difficult to define appropriate semantics

Semantics of Type Theory Thomas Streicher, 1991 Typing plays an important role in software development Types can be considered as weak specifications of programs and checking that a program is of a certain type provides a verification that a program satisfies such a weak specification By translating a problem specification into a proposition in constructive logic one can go one step further the effectiveness and uniformity of a constructive proof allows us to extract a program from a proof of this proposition Thus by the proposition as types paradigm one obtains types whose elements are considered as proofs Each of these proofs contains a program correct w r t the given problem specification This opens the

way for a coherent approach to the derivation of provably correct programs These features have led to a typeful programming style where the classical typing concepts such as records or static arrays are enhanced by polymorphic and dependent types in such a way that the types themselves get a complex mathematical structure Systems such as Coq and Huet's Calculus of Constructions are calculi for computing within extended type systems and provide a basis for a deduction oriented mathematical foundation of programming On the other hand the computational power and the expressive imprecisativeness of these systems makes it difficult to define appropriate semantics Categorical Logic and Type Theory B. Jacobs, 2001-05-10 This book is an attempt to give a systematic presentation of both logic and type theory from a categorical perspective using the unifying concept of fibred category Its intended audience consists of logicians type theorists category theorists and theoretical computer scientists **The Mathematical and Philosophical Legacy of Alexander**

Grothendieck Marco Panza, Daniele C. Struppa, Jean-Jacques Szczeciniarz, 2025-01-21 Alexander Grothendieck is often considered one of the greatest mathematicians of the twentieth century if not all time and his unique vision continues to impact and inspire many fields and researchers today Utilizing a multidisciplinary approach this edited volume explores the profound influence his work and ideas have had not only on mathematics but also on logic and philosophy Chapters are written by international scholars and many were inspired by talks given at the conference Grothendieck A Multifarious Giant at Chapman University May 24-28 2022 Some chapters are written from a historical perspective and discuss the development of the main themes that characterized Grothendieck's work Others are more mathematical in nature analyzing and extending some of his more relevant and obscure results that are still not well understood Philosophical implications and applications in logic are the subjects of other chapters This volume will be of interest not only to mathematicians working in algebraic geometry category theory and other areas to which Grothendieck contributed but also to philosophers logicians and historians of science **Types for Proofs and Programs** Stefano Berardi, Mario Coppo, 1996-10-02 This volume contains a refereed selection of revised full papers chosen from the contributions presented during the Third Annual Workshop held under the auspices of the ESPRIT Basic Research Action 6453 Types for Proofs and Programs The workshop took place in Torino Italy in June 1995 Type theory is a formalism in which theorems and proofs specifications and programs can be represented in a uniform way The 19 papers included in the book deal with foundations of type theory logical frameworks and implementations and applications all in all they constitute a state of the art survey for the area of type theory

Programming Languages and Systems Oleg Kiselyov, 2024-10-27 This book constitutes the proceedings of the 22nd Asian Symposium on Programming Languages and Systems APLAS 2024 held in Kyoto Japan during October 22-24 2024 The 18 full papers presented here were carefully reviewed and selected from 37 submissions These papers have been categorized under the following topical sections Type theory and Semantic Frameworks Probabilistic and Declarative Programming Quantum Computation Logical Relations Verification **Applied Semantics** Gilles Barthe, Peter Dybjer, Luis Pinto, João

Saraiva, 2003-08-02 This book is based on material presented at the international summer school on Applied Semantics that took place in Caminha Portugal in September 2000 We aim to present some recent developments in programming language research both in semantic theory and in implementation in a series of graduate level lectures The school was sponsored by the ESPRIT Working Group 26142 on Applied Semantics APPSEM which operated between April 1998 and March 2002 The purpose of this working group was to bring together leading researchers both in semantic theory and in implementation with the specific aim of improving the communication between theoreticians and practitioners

The activities of APPSEM were restructured into nine interdisciplinary themes A Semantics for object oriented programming B Program structuring C Integration of functional languages and proof assistants D Verification methods E Automatic program transformation F Games sequentiality and abstract machines G Types and type inference in programming H Semantics based optimization I Domain theory and real number computation These themes were identified as promising for profitable interaction between semantic theory and practice and were chosen to contribute to the following general topics description of existing programming language features design of new programming language features implementation and analysis of programming languages transformation and generation of programs verification of programs The chapters in this volume give examples of recent developments covering a broad range of topics of interest to APPSEM

Formal Semantics in Modern Type Theories Stergios Chatzikiyiakidis, Zhaohui Luo, 2021-02-17 This book studies formal semantics in modern type theories MTT semantics Compared with simple type theory MTTs have much richer type structures and provide powerful means for adequate semantic constructions This offers a serious alternative to the traditional set-theoretical foundation for linguistic semantics and opens up a new avenue for developing formal semantics that is both model theoretic and proof theoretic which was not available before the development of MTT semantics This book provides a reader friendly and precise description of MTTs and offers a comprehensive introduction to MTT semantics It develops several case studies such as adjectival modification and copredication to exemplify the attractiveness of using MTTs for the study of linguistic meaning It also examines existing proof assistant technology based on MTT semantics for the verification of semantic constructions and reasoning in natural language Several advanced topics are also briefly studied including dependent event types and application of dependent typing to event semantics

Category Theory and Computer Science Eugenio Moggi, Giuseppe Rosolini, 1997-08-20 This book constitutes the refereed proceedings of the 7th International Conference on Category Theory and Computer Science CTCS 97 held in Santa Margherita Ligure Italy in September 1997 Category theory attracts interest in the theoretical computer science community because of its ability to establish connections between different areas in computer science and mathematics and to provide a few generic principles for organizing mathematical theories This book presents a selection of 15 revised full papers together with three invited contributions The topics addressed include reasoning principles for types rewriting program semantics and structuring of logical systems

Higher-Order

Computability John Longley, Dag Normann, 2015-11-06 This book offers a self contained exposition of the theory of computability in a higher order context where computable operations may themselves be passed as arguments to other computable operations The subject originated in the 1950s with the work of Kleene Kreisel and others and has since expanded in many different directions under the influence of workers from both mathematical logic and computer science The ideas of higher order computability have proved valuable both for elucidating the constructive content of logical systems and for investigating the expressive power of various higher order programming languages In contrast to the well known situation for first order functions it turns out that at higher types there are several different notions of computability competing for our attention and each of these has given rise to its own strand of research In this book the authors offer an integrated treatment that draws together many of these strands within a unifying framework revealing not only the range of possible computability concepts but the relationships between them The book will serve as an ideal introduction to the field for beginning graduate students as well as a reference for advanced researchers

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

Algebra and Coalgebra in Computer Science José Luis Fiadeiro, 2005 This book constitutes the refereed proceedings of the First International Conference on Algebra and Coalgebra in Computer Science CALCO 2005 held in Swansea UK in September 2005 The biennial conference was created by joining the International Workshop on Coalgebraic Methods in Computer Science CMCS and the Workshop on Algebraic Development Techniques WADT It addresses two basic areas of application for algebras and coalgebras as mathematical objects as well as their application in computer science The 25 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 62 submissions The papers deal with the following subjects automata and languages categorical semantics hybrid probabilistic and timed systems inductive and coinductive methods modal logics relational systems and term rewriting abstract data types algebraic and coalgebraic specification calculi and models of concurrent distributed mobile and context aware computing formal testing and quality assurance general systems theory and computational models chemical biological etc generative programming and model driven development models correctness and re configuration of hardware middleware architectures re engineering techniques program transformation semantics of conceptual modelling methods and techniques semantics of programming languages validation and verification

Logical Aspects of Computational Linguistics Alain Lecomte, Francois

Lamarche, Guy Perrier, 2003-06-29 This book constitutes the thoroughly refereed post proceedings of the Second International Conference on Logical Aspects of Computational Linguistics LACL 97 held in Nancy France in September 1997 The 10 revised full papers presented were carefully selected during two rounds of reviewing Also included are two comprehensive invited papers Among the topics covered are type theory various types of grammars linear logic parsing type directed natural language processing proof theoretic aspects concatenation logics and mathematical languages

Computer Science Logic Luke Ong, 2005-09-07 The Annual Conference of the European Association for Computer Science Logic EACSL CSL 2005 was held at the University of Oxford on 22-25 August 2005 *Mathematical Theory of Programs* □□□

□, 2010-10 **Truth in Perspective** Concha Martínez, Uxía Rivas, Luis Villegas-Forero, 2019-05-23 First published in 1998 this volume has its origin in a meeting that was held in Santiago de Compostela University Santiago de Compostela Spain in January 1996 The meeting was organized by the Department of Logic and Philosophy of Science in cooperation with the Association for Logic Methodology and Philosophy of Science in Spain Within analytical philosophy issues such as the definability of truth its semantic relevance its role in the distinction between formal and natural languages the status of truth bearers or in its case of truth makers have become a crossroads in the studies of logic philosophy of science philosophy of language philosophy of mind epistemology and ontology Thus in spite of what the title *Truth in Perspective* may suggest to the reader at first the present volume is not only though it is also a presentation of different theories or conceptions of truth Most of the book presents a vision of different groups of philosophical questions in which the issue of truth appears embedded together with other related themes from different points of view *The Handbook of Contemporary Semantic Theory* Shalom Lappin, Chris Fox, 2019-02-12 The second edition of *The Handbook of Contemporary Semantic Theory* presents a comprehensive introduction to cutting edge research in contemporary theoretical and computational semantics Features completely new content from the first edition of *The Handbook of Contemporary Semantic Theory* Features contributions by leading semanticists who introduce core areas of contemporary semantic research while discussing current research Suitable for graduate students for courses in semantic theory and for advanced researchers as an introduction to current theoretical work

ESOP '88 Harald Ganzinger, 1988-03-09 The volume contains the 23 papers selected for presentation at the ESOP 88 Conference Nancy 1988 The theme of the ESOP conferences is the design specification and implementation of programming languages and systems Particular emphasis is placed on work in which an implemented system embodies an important concept or formal model of programming in such a way that its usefulness is demonstrated Among the five sections of the volume the one on language implementation contains the most papers Here a rather wide spectrum of aspects ranging from language implementation problems on parallel architectures and optimization of functional programs to new concepts for programming environments is covered Another large section consists of papers in the area of algebraic specification and type concepts The papers in this section are devoted to issues such as polymorphism subtypes

and notions of implementation and reuse for algebraic specifications Two further sections are devoted to new language concepts and novel approaches to program development and verification

Correct Hardware Design and Verification Methods George J. Milne, Laurence Pierre, 1993-05-12 These proceedings contain the papers presented at the Advanced Research Working Conference on Correct Hardware Design Methodologies held in Arles France in May 1993 and organized by the ESPRIT Working Group 6018 CHARME 2 and the Universit de Provence Marseille in cooperation with IFIP Working Group 10 2 Formal verification is emerging as a plausible alternative to exhaustive simulation for establishing correct digital hardware designs The validation of functional and timing behavior is a major bottleneck in current VLSI design systems slowing the arrival of products in the marketplace with its associated increase in cost From being a predominantly academic area of study until a few years ago formal design and verification techniques are now beginning to migrate into industrial use As we are now witnessing an increase in activity in this area in both academia and industry the aim of this working conference was to bring together researchers and users from both communities

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