

Computational Logic

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Px A Computational Logic

Jim Grundy, Malcolm Newey



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PX, a Computational Logic Susumu Hayashi, Hiroshi Nakano, 1987 **Logic, Language and Computation** Neil Jones, Masami Hagiya, Masahiko Sato, 1994-03-30 This volume contains 15 papers from research areas where Japanese theoretical computer science is particularly strong Many are about logic and its realization and applications to computer science others concern synthesis transformation and implementation of programming languages and complexity and coding theory Not coincidentally all the authors are either former students or close colleagues of Satoru Takasu professor and director at the Research Institute of Mathematical Sciences at the University of Kyoto The purpose of this volume is to celebrate Professor Takasu s influence on theoretical computer science in Japan and worldwide by his research his philosophy and his advising of students The breadth depth and quality of the papers are characteristic of his interests and activities 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 **From Sets and Types to Topology and Analysis** Laura Crosilla, Peter Schuster, 2005-10-06 Bridging the foundations and practice of constructive mathematics this text focusses on the contrast between the theoretical developments which have been most useful for computer science and more specific efforts on constructive analysis algebra and topology *Applied Proof Theory: Proof Interpretations and their Use in Mathematics* Ulrich Kohlenbach, 2008-05-23 This is the first treatment in book format of proof theoretic transformations known as proof interpretations that focuses on applications to ordinary mathematics It covers both the necessary logical machinery behind the proof interpretations that are used in recent applications as well as via extended case studies carrying out some of these applications in full detail This subject has historical roots in the 1950s This book for the first time tells the whole story **Recent Trends in Algebraic Development Techniques** Maura Cerioli, Gianna Reggio, 2003-07-31 This book constitutes the thoroughly refereed post workshop proceedings of the 15th International Workshop on Algebraic Development Techniques WADT 2001 held jointly with the General Workshop of the ESPRIT Working Group CoFI in Genova Italy in April 2001 The book presents 16 papers selected from 32 workshop presentations Among the topics addressed are

formal specification languages term rewriting and proof systems **Types for Proofs and Programs** Hendrik Pieter Barendregt, Tobias Nipkow, 1994-05-20 This volume contains thoroughly refereed and revised full papers selected from the presentations at the first workshop held under the auspices of the ESPRIT Basic Research Action 6453 Types for Proofs and Programs in Nijmegen The Netherlands in May 1993 As the whole ESPRIT BRA 6453 this volume is devoted to the theoretical foundations design and applications of systems for theory development Such systems help in designing mathematical axiomatisation performing computer aided logical reasoning and managing databases of mathematical facts they are also known as proof assistants or proof checkers *Tests and Proofs* Bertrand Meyer, Yuri Gurevich, 2007-08-26 Readers will find here a book that constitutes the thoroughly refereed post proceedings of the First International Conference on Test and Proofs held in Zurich Switzerland in February 2007 The 12 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers are devoted to the convergence of software proofing and testing and feature current research work that combines ideas from both sides to foster software quality *Logical Frameworks for Truth and Abstraction* A. Cantini, 1996-03-14 This English translation of the author s original work has been thoroughly revised expanded and updated The book covers logical systems known as type free or self referential These traditionally arise from any discussion on logical and semantical paradoxes This particular volume however is not concerned with paradoxes but with the investigation of type free systems to show that i there are rich theories of self application involving both operations and truth which can serve as foundations for property theory and formal semantics ii these theories provide a new outlook on classical topics such as inductive definitions and predicative mathematics iii they are particularly promising with regard to applications Research arising from paradoxes has moved progressively closer to the mainstream of mathematical logic and has become much more prominent in the last twenty years A number of significant developments techniques and results have been discovered Academics students and researchers will find that the book contains a thorough overview of all relevant research in this field *Advances in Computing Science - ASIAN'98* Jieh Hsiang, Atsushi Ohori, 2003-05-20 This book constitutes the refereed proceedings of the 4th Asian Computing Science Conference ASIAN 98 held in Manila The Philippines in December 1998 The 17 revised full papers presented were carefully reviewed and selected from a total of 43 submissions Also included are a few invited contributions Among the topics covered are automated deduction proof theory rewriting systems program semantics distributed processing algorithms and graph theoretical aspects Typed Lambda Calculi and Applications Pawel Urzyczyn, 2005-04-07 This book constitutes the refereed proceedings of the 7th International Conference on Typed Lambda Calculi and Applications TLCA 2005 held in Nara Japan in April 2005 The 27 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 61 submissions The volume reports research results on all current aspects of typed lambda calculi ranging from theoretical and methodological issues to applications in various contexts *Applied and Computational Mathematics* Dieky Adzkiya, Kistosil Fahim, 2024-07-24 This

book collects selected peer reviewed research presented at the 8th International Conference on Mathematics Pure Applied and Computation held in Lombok Indonesia on 30 September 2023 Organised into three parts Part I Control Systems Mathematical Simulation and Modeling Part II Formal Methods and Data Science Part III Graph Theory and Analysis the book contains 29 peer reviewed chapters Ranging from theoretical to applied results the book addresses the mathematical models for several phenomena such as investment behavior unmanned surface vehicles and electronic medical records It also highlights the progress in the use of satisfiability methods and tools to solve puzzle and pencil games It showcases how mathematics is used to solve real world problems

Type Theory and Functional Programming Simon Thompson, 1991 This book explores the role of Martin Lof's constructive type theory in computer programming The main focus of the book is how the theory can be successfully applied in practice Introductory sections provide the necessary background in logic lambda calculus and constructive mathematics and exercises and chapter summaries are included to reinforce understanding

Algorithmic Number Theory: Efficient algorithms Eric Bach, Jeffrey Outlaw Shallit, 1996 Volume 1 *Computational Logic — CL 2000* John Lloyd, Veronica Dahl, Ulrich Furbach, Manfred Kerber, Kung-Kiu Lau, Catuscia Palamidessi, Luis M. Pereira, Yehoshua Sagiv, Peter J. Stuckey, 2003-06-26 These are the proceedings of the First International Conference on Computational Logic CL 2000 which was held at Imperial College in London from 24th to 28th July 2000 The theme of the conference covered all aspects of the theory implementation and application of computational logic where computational logic is to be understood broadly as the use of logic in computer science The conference was colocated with the following events 6th International Conference on Rules and Objects in Databases DOOD 2000 10th International Workshop on Logic based Program Synthesis and Transformation LOPSTR 2000 10th International Conference on Inductive Logic Programming ILP 2000 CL 2000 consisted of seven streams Program Development LOPSTR 2000 Logic Programming Theory and Extensions Constraints Automated Deduction Putting Theory into Practice Knowledge Representation and Non monotonic Reasoning Database Systems DOOD 2000 Logic Programming Implementations and Applications The LOPSTR 2000 workshop constituted the program development stream and the DOOD 2000 conference constituted the database systems stream Each stream had its own chair and program committee which autonomously selected the papers in the area of the stream Overall 176 papers were submitted of which 86 were selected to be presented at the conference and appear in these proceedings The acceptance rate was uniform across the streams In addition LOPSTR 2000 accepted about 15 extended abstracts to be presented at the conference in the program development stream

Theory of Computing and Systems Danny Dolev, Zvi Galil, Michael Rodeh, 1992-05-06 ISTCS 92 the Israel Symposium on the Theory of Computing and Systems came about spontaneously as a result of informal interaction between a group of people who viewed the conference as an appropriate expression of Israeli strength in theoretical aspects of computing and systems The enthusiasm that the symposium created resulted in the submission of a large number of extremely high quality papers which led in turn to strict

acceptance criteria This volume contains nineteen selected papers representing the cream of Israeli talent in the field on a variety of active and interesting topics in the theory of computing and systems

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

Types for Proofs and Programs Paul Callaghan, Zhaohui Luo, James McKinna, Robert Pollack, 2003-08-03 This book constitutes the thoroughly refereed post proceedings of the International Workshop of the TYPES Working Group TYPES 2000 held in Durham UK in December 2000 The 15 revised full papers presented were carefully reviewed and selected during two rounds of refereeing and revision All current issues on type theory and type systems and their applications to programming systems design and proof theory are addressed

Theorem Proving in Higher Order Logics Jim Grundy, Malcolm Newey, 1998-09-09 This book constitutes the refereed proceedings of the 11th International Conference on Theorem Proving in Higher Order Logics TPHOLs 98 held in Canberra Australia in September October 1998 The 26 revised full papers presented were carefully reviewed and selected from a total of 52 submissions Also included are two invited papers The papers address all current aspects of theorem proving in higher order logics and formal verification and program analysis Besides the HOL system the theorem provers Coq Isabelle LAMBDA LEGO NuPrI and PVS are discussed

Architecting Systems with Trustworthy Components Ralf Reussner, Judith A. Stafford, Clemens A. Szyperski, 2006-06-30 This book constitutes the thoroughly refereed post proceedings of the International Dagstuhl Seminar on Architecting Systems with Trustworthy Components held in Dagstuhl Castle Germany in December 2004 Presents 10 revised full papers together with 5 invited papers contributed by outstanding researchers Discusses core problems in measurement and normalization of non functional properties modular reasoning over non functional properties capture of component requirements in interfaces and protocols interference and synergy of top down and bottom up aspects and more

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