

Domains and Lambda- Calculi

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Domains And Lambda Calculi

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Domains And Lambda Calculi:

Domains and Lambda-Calculi Roberto M. Amadio, Pierre-Louis Curien, 1998-07-02 Graduate text on mathematical foundations of programming languages and operational and denotational semantics **Selected Domains and Lambda Calculi** Roberto M. Amadio, Institut national de recherche en informatique et en automatique (France), Pierre-Louis Curien, 1994 **Lambda-calculi for (strict) Parallel Functions** Gérard Boudol, Institut national de recherche en informatique et en automatique (France), 1991 Abstract We introduce two lambda calculi and show that they are expressive for two canonical domains of parallel functions The first calculus is an enrichment of the lazy call by name lambda calculus with call by value abstractions and parallel composition while in the second the usual call by name abstractions are disallowed The corresponding domains are respectively Abramsky's domain formula a lifted function space and formula a lifted domain of strict functions These domains are lattices and we show that the parallelism is adequately represented by the join operator while call by value abstractions correspond to strict functions The proofs of the results rely on a completeness theorem for the logical presentation of the semantics Continuous Lattices and Domains G. Gierz, K. H. Hofmann, K. Keimel, J. D. Lawson, M. Mislove, D. S. Scott, 2003-03-06 Table of contents Rewriting Techniques and Applications Robert Nieuwenhuis, 2007-03-06 The refereed proceedings of the 14th International Conference on Rewriting Techniques and Applications RTA 2003 held in Valencia Spain in June 2003 The 26 revised regular papers and 6 system descriptions presented together with 3 invited contributions were carefully reviewed and selected from 61 submissions All current aspects of rewriting are addressed **Prospects for Hardware Foundations** Bernhard Möller, John V. Tucker, 2003-07-31 Preface VI I X Table of Contents B M ller and J V Tucker Eds Prospects for Hardware Foundations LNCS 1546 pp 1 26 1998 Springer Verlag Berlin Heidelberg 1998 2 The NADA Group Introduction NADA and NIL 3 4 The NADA Group Introduction NADA and NIL 5 6 The NADA Group Introduction NADA and NIL 7 8 The NADA Group Introduction NADA and NIL 9 10 The NADA Group Introduction NADA and NIL 11 12 The NADA Group Introduction NADA and NIL 13 14 The NADA Group Introduction NADA and NIL 15 16 The NADA Group Introduction NADA and NIL 17 18 The NADA Group Introduction NADA and NIL 19 20 The NADA Group Introduction NADA and NIL 21 22 The NADA Group Introduction NADA and NIL 23 24 The NADA Group Introduction NADA and NIL 25 26 The NADA Group Streams Stream Transformers and Domain Representations B M ller and J V Tucker Eds Prospects for Hardware Foundations LNCS 1546 pp 27 68 1998 Springer Verlag Berlin Heidelberg 1998 28 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 29 30 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 31 32 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 33 34 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 35 36 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 37 Scientific and Technical Aerospace Reports , 1993

Domain Models of Typed Lambda Calculi Claudio Dupré, 1998 **An Introduction to Lambda Calculi for Computer Scientists** Chris Hankin, 2004

The lambda calculus lies at the very foundations of computer science. Besides its historical role in computability theory, it has had significant influence on programming language design and implementation, denotational semantics, and domain theory. The book emphasises the proof theory for the type-free lambda calculus. The first six chapters concern this calculus and cover the basic theory, reduction models, computability, and the relationship between the lambda calculus and combinatory logic. Chapter 7 presents a variety of typed calculi: first the simply typed lambda calculus, then Milner style polymorphism, and finally the polymorphic lambda calculus. Chapter 8 concerns two variants of the type-free lambda calculus that have appeared in the research literature: the lazy lambda calculus and the lambda sigma calculus. The final chapter contains references and a guide to further reading. There are exercises throughout. In contrast to earlier books on these topics, which were written by logicians, this book is written from a computer science perspective and emphasises the practical relevance of many of the key theoretical ideas. The book is intended as a course text for final year undergraduates or first year graduate students in computer science. Research students should find it a useful introduction to more specialist literature.

Mathematical Reviews, 2000 *Frontiers of Combining Systems* Alessandro Armando, 2003-08-01

This volume contains the proceedings of FroCoS 2002, the 4th International Workshop on Frontiers of Combining Systems, held April 8-10, 2002, in Santa Margherita Ligure near Genova, Italy. Like its predecessors, organized in 1996, 1998, and 2000, FroCoS 2002 offered a common forum for the presentation and discussion of research activities on the combination and integration of systems in various areas of computer science, such as logic, computation, program development, and proof, artificial intelligence, mechanical verification, and symbolic computation. There were 35 submissions of high quality, authored by researchers from countries including Australia, Belgium, Brazil, Finland, France, Germany, Italy, Portugal, Spain, Singapore, United Kingdom, United States of America, and Yugoslavia. All the submissions were thoroughly evaluated on the basis of at least three referee reports, and an electronic program committee meeting was held through the Internet. The program committee selected 14 research contributions. The topics covered by the selected papers include: combination of logics, combination of constraint solving techniques, combination of decision procedures, combination problems in verification, modular properties of theorem proving, integration of decision procedures, and other solving processes into constraint programming and deduction systems.

Fundamenta Informaticae Polskie Towarzystwo Matematyczne, 1995 *Typed Lambda Calculi and Applications* Simona Ronchi Della Rocca, 2007-07-11

This book constitutes the refereed proceedings of the 8th International Conference on Typed Lambda Calculi and Applications (TLCA 2007), held in Paris, France, in June 2007, in conjunction with RTA 2007, the 18th International Conference on Rewriting Techniques and Applications, as part of RDP 2007, the 4th International Conference on Rewriting, Deduction, and Programming. The 25 revised full papers presented, together with 2 invited talks, were carefully reviewed and selected from 52 submissions.

The papers present original research results that are broadly relevant to the theory and applications of typed calculi and address a wide variety of topics such as proof theory semantics implementation types and programming

Types for Proofs and Programs ,1994 Mathematical Foundations of Computer Science ,2000 *Programming Concepts and Methods* M. Broy,Cliff B. Jones,1990

The papers presented in this book were originally presented at a conference organized jointly by IFIP working groups 2.2 and 2.3 The titles of the groups are Formal Description of Programming Concepts and Programming Methodology respectively There is no formal division between these two areas The papers here which relate to fundamental notions and notations reflect current issues in formal semantic description Programming methods use such description languages but are also concerned with methods of developing implementations which can be shown to satisfy their specifications Members of both working groups have an interest in mechanical support for the task of proving theorems and the book includes several papers relating to such systems or their underlying logical frameworks

Lambda Calculi Chris Hankin,1994

Lambda calculus lies at the very foundation of computer science Besides its historical role in computability theory it has had significant influence on programming language design and implementation denotational semantics and domain theory This book is written from a systems perspective emphasizing the practical relevance of many of the key theoretical ideas

Parametric Polymorphism and Operational Equivalence Andrew M. Pitts,1998

Abstract Studies of the mathematical properties of impredicative polymorphic types have for the most part focused on the polymorphic lambda calculus of Girard Reynolds which is a calculus of total polymorphic functions This paper considers polymorphic types from a functional programming perspective where the partialness arising from the presence of fixpoint recursion complicates the nature of potentially infinite lazy datatypes An approach to Reynolds notion of relational parametricity is developed that works directly on the syntax of a programming language using a novel closure operator to relate operational behaviour to parametricity properties of types Working with an extension of Plotkin s PCF with for every types lazy lists and existential types we show by example how the resulting logical relation can be used to prove properties of polymorphic types up to operational equivalence

Active Object Languages: Current Research Trends Frank de Boer,Ferruccio Damiani,Reiner Hähnle,Einar Broch Johnsen,Eduard Kamburjan,2024-01-28

Active Objects are a programming paradigm that supports a non competitive data driven concurrency model This renders active object languages to be well suited for simulation data race free programming and formal verification Concepts from active objects made their way into languages such as Rust ABS Akka JavaScript and Go This is the first comprehensive state of art overview on the subject the invited contributions are written by experts in the areas of distributed systems formal methods and programming languages

Principles and Practice of Declarative Programming ,2004

Adopting the Song of Expression: An Psychological Symphony within **Domains And Lambda Calculi**

In a world taken by monitors and the ceaseless chatter of fast communication, the melodic elegance and emotional symphony developed by the prepared word often diminish into the backdrop, eclipsed by the persistent noise and disturbances that permeate our lives. Nevertheless, set within the pages of **Domains And Lambda Calculi** a stunning literary treasure full of fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that captivating masterpiece conducts visitors on a psychological journey, well unraveling the hidden songs and profound impact resonating within each carefully constructed phrase. Within the depths with this touching assessment, we will investigate the book is main harmonies, analyze its enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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