

Full Abstraction and Semantic Equivalence

Full Abstraction And Semantic Equivalence

J W De Bakker, J Rutten



Full Abstraction And Semantic Equivalence:

Full Abstraction and Semantic Equivalence Ketan Mulmuley, 1987 Full Abstraction and Semantic Equivalence demonstrates an original theory that uses the same inclusive predicates to show semantic equivalence and to construct fully abstract extensional submodels Previous general techniques for proving semantic equivalence through the construction of inclusive predicates have foundered due to their complexity and the lack of any counter examples In this book Mulmuley has been able to construct a counterexample through diagonalization moreover he has discovered a technique to prove semantic equivalences that has the advantage of being mechanizable This system called Inclusive Predicate Logic IPL can almost automatically prove the existence of most of the inclusive predicates which arise in practice Mulmuley also demonstrates that one can construct a fully abstract algebraic model of typed lambda calculus which is a submodel of the classical model if the classical model is based on complete lattices Beyond this the book shows that theory can extend to the case of a language that has reflexive recursively defined types as do most of the real programming languages Contents Introduction to Domain Theory The Problem of Inclusive Predicate Existence Fully Abstract Submodels of Typed Lambda Calculi Fully Abstract Submodels in the Presence of Reflexive Types A Mechanizable Theory for Existence Proofs IPL Implementation Conclusion Ketan Mulmuley is a Miller Fellow in the Department of Electrical Engineering and Computer Science at the University of California Berkeley Full Abstraction and Semantic Equivalence is a winner of the 1986 ACM Doctoral Dissertation Award

Ten Years Of Concurrency Semantics: Selected Papers Of The Amsterdam Concurrency Group J W De Bakker, J Rutten, 1992-09-22 This collection of reprints describes a unified treatment of semantics covering a wide range of notions in parallel languages Included are several foundational and introductory papers developing the methodology of metric semantics studies on the comparative semantics of parallel object oriented and logic programming and papers on full abstraction and transition system specifications In addition links with process algebra and the theory of domain equations are established Throughout a uniform proof technique is used to relate operational and denotational models The approach is flexible in that both linear time branching time or bisimulation and intermediate models can be handled as well as schematic and interpreted elementary actions The reprints are preceded by an extensive introduction surveying related work on metric semantics

Games and Full Abstraction for a Functional Metalanguage with Recursive Types Guy McCusker, 2012-12-06 This book is a minor revision of the thesis submitted in August 1996 no major changes have been made However I would like to take this opportunity to mention that since the thesis was written discoveries have been made which would allow a substantial simplification and strengthening of the results in Chapters 3 and 6 In particular it is now possible to model sums correctly in the category \mathbf{I} as well as in which means that the definability results of Chapter 6 can be stated and proved at the intensional level making them simpler and much closer in spirit to the original proofs of Abramsky Jagadeesan Malacaria Hyland Ong and Nickau 10 61 79 This also leads quite straightforwardly to an understanding of call by

value languages Details of these improvements can be found in [14, 73]. It is also worth mentioning that progress has been made on some of the topics suggested for future research in Chapter 7. In particular, fully abstract models have been found for various kinds of languages with local variables [8, 13, 16] and a fully complete games model of the polymorphic language System F has been constructed by Hughes [59].

Guy McCusker, February 1998. Acknowledgements: First of all I must thank my supervisor Samson Abramsky. It was he who first introduced me to game semantics and suggested avenues of research in the area; this book would certainly not exist were it not for him.

Semantics and Algebraic Specification Jens Palsberg, 2009-08-28. 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 λ -scheme programming language, type checking, action algebras, and denotational semantics.

Mathematical Foundations of Programming Semantics Stephen Brookes, 1994-05-20. This volume is the proceedings of the Ninth International Conference on the Mathematical Foundations of Programming Semantics held in New Orleans in April 1993. The focus of the conference series is the semantics of programming languages and the mathematics which supports the study of the semantics. The semantics is basically denotation. The mathematics may be classified as category theory, lattice theory, or logic. Recent conferences and workshops have increasingly emphasized applications of the semantics and mathematics. The study of the semantics develops with the mathematics, and the mathematics is inspired by the applications in semantics. The volume presents current research in denotational semantics and applications of category theory, logic, and lattice theory to semantics.

Semantics of Programming Languages and Model Theory Manfred Droste, Yuri Gurevich, 1993-09-10. Fourteen papers presented at the conference on the title held at the International Conference and Research Center for Computer Science, Schloss Dagstuhl, June 1991, as well as a few others submitted by colleagues unable to attend, reflect the interplay between algebra, logic, and semantics of programming languages. Among the topics are: a formal specification of PARLOG, synthesis of nondeterministic asynchronous automata, observable modules, and power domain constructions, the Smyth completion of a quasi-uniform space, current trends in the semantics of data flow, and a theory of unary pairfunctions.

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Design of Master Agreements for OTC Derivatives Dietmar Franzen, 2000-10-04. I first came across the issue of derivatives documentation when writing my diploma thesis on measuring the credit risk of OTC derivatives while I was an economics student at the University of Bonn. Despite the

fact that security design has been an area of research in economics for many years and despite the widespread use of derivatives documentation in financial practice the task of designing contracts for derivatives transactions has not been dealt with in financial theory The one thing that aroused my curiosity was that two parties with usually opposing interests namely banking supervisors and the banking industry's lobby unanimously endorse the use of certain provisions in standardized contracts called master agreements Do these provisions increase the ex ante efficiency of contracts for all parties involved I actually began my research expecting to find support for the widely held beliefs about the efficiency or inefficiency of certain provisions and was surprised to obtain results that contradicted the conventional wisdom I would strongly advise against using these results in any political debate on derivatives documentation They were obtained within a highly stylized model with some restrictive assumptions This work should rather be seen as an attempt to formalize the discussion on derivatives documentation and to challenge the notion that certain provisions are generally ex ante efficient It is also an invitation to all those advocating the use of certain provisions in master agreements to formalize their arguments and to explain the economic rationale behind these provisions

Tools and Algorithms for the Construction and Analysis of Systems Kurt Jensen, Andreas Podelski, 2004-03-09 This volume contains the proceedings of the 10th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2004 TACAS 2004 took place in Barcelona Spain from March 29th to April 2nd as part of the 7th European Joint Conferences on Theory and Practice of Software ETAPS 2004 whose aims organization and history are detailed in a foreword by the ETAPS Steering Committee Chair Jos e Luiz Fiadeiro TACAS is a forum for researchers developers and users interested in rigorously based tools for the construction and analysis of systems The conference serves to bridge the gaps between different communities including but not limited to those devoted to formal methods software and hardware verification static analysis programming languages software engineering real time systems and communication protocols that share common interests in and techniques for tool development In particular by providing a venue for the discussion of common problems heuristics algorithms data structures and methodologies TACAS aims to support researchers in their quest to improve the utility reliability and efficiency of tools for building systems TACAS seeks theoretical papers with a clear link to tool construction papers

describing relevant algorithms and practical aspects of their implementation papers giving descriptions of tools and associated methodologies and case studies with a conceptual message

Extensions of Logic Programming Evelina Lamma, Paola Mello, 1993-02-12 This book contains papers which investigate how to extend logic programming toward the artificial intelligence and software engineering areas covering both theoretical and practical aspects Some papers investigate topics such as abductive reasoning and negation Some works discuss how to enhance the expressive power of logic programming by introducing constraints sets and integration with functional programming Other papers deal with the structuring of knowledge into modules taxonomies and objects with the aim of extending logic programming toward software engineering

applications A section is devoted to papers concentrating on proof theory and inspired by Gentzen style sequent or natural deduction systems Topics such as concurrency are considered to enhance the expressive power of logic languages Finally some papers mainly concern implementation techniques for some of these logic programming extensions

The Blackwell Guide to the Philosophy of Computing and Information Luciano Floridi, 2008-04-15 This Guide provides an ambitious state of the art survey of the fundamental themes problems arguments and theories constituting the philosophy of computing A complete guide to the philosophy of computing and information Comprises 26 newly written chapters by leading international experts Provides a complete critical introduction to the field Each chapter combines careful scholarship with an engaging writing style Includes an exhaustive glossary of technical terms Ideal as a course text but also of interest to researchers and general readers

Mathematical Foundation of Programming Semantics Austin Melton, 1986-10 Röntgenbefund und die sich in ihm widerspiegelnde pathologische Anatomie sind neben dem klinischen Bild die wichtigsten Säulen auf denen die Diagnostik von Knochengeschwülsten und geschwulstähnlichen Läsionen beruht Radiologen und Pathologen stellen in diesem Buch Klinik Radiologie und Histologie der verschiedenen Knochenläsionen am Gliedmaßen und Achsenskelett umfassend und synoptisch dar Das umfangreiche Material resultiert aus einer fünfzehnjährigen interdisziplinären Zusammenarbeit In einem einleitenden Kapitel werden die verschiedenen radiologischen konventionelles Röntgenbild CT Kernspintomographie Angiographie transkutane Biopsie und histologischen Untersuchungstechniken und ihre Wertigkeit beschrieben Der radiologischen Befundungsmethodik von Knochengeschwülsten und ähnlichen Läsionen wird mit Hilfe der Lodwick Graduierung und einem neueren Staging System für Knochengeschwülste werden eigene Kapitel gewidmet Im speziellen Teil des Buches erfolgt die Darstellung der einzelnen benignen und malignen Knochengeschwülste in einer systematischen Untergliederung in ihre Häufigkeit Lokalisation Alters und Geschlechtsprävalenz Klinik und Prognose Histologie Radiologie und Differentialdiagnose Besonders die unter den Knochengeschwülsten und tumorähnlichen Läsionen häufig vorkommenden Entitäten sind mit einem umfassenden Bildmaterial ausgestattet um dem breiten Spektrum ihrer Morphologie gerecht zu werden Durch das Verständnis klinischer radiologischer und pathologisch anatomischer Befunde werden Diagnostik und Therapie der Skelettläsionen sehr erleichtert Die synoptische Art der Darstellung macht dieses Buch für alle Disziplinen die sich mit Knochentumoren befassen zu einem idealen Nachschlagewerk

Conference Record of the Fifteenth Annual ACM Symposium on Principles of Programming Languages, 1988 Programming Languages and Systems Sophia Drossopoulou, 2008-03-18 This book constitutes the refereed proceedings of the 17th European Symposium on Programming ESOP 2008 held in Budapest Hungary in March April 2008 as part of ETAPS 2008 the European Joint Conferences on Theory and Practice of Software The 25 revised full papers presented together with the abstract of one invited talk and two tool presentations were carefully reviewed and selected from 104 submissions and address fundamental issues in the specification analysis and implementation of programming languages and systems The papers are organized in topical sections on static analysis

security concurrency and program verification Proceedings of the 1992 ACM Conference on LISP and Functional Programming Association for Computing Machinery, 1992 *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.

Journal on Data Semantics II
Stefano Spaccapietra, Elisa Bertino, Sushil Jajodia, Roger B. King, Dennis McLeod, Maria E. Orłowska, Leon Strous, 2005-01-27

The LNCS Journal on Data Semantics is devoted to the presentation of notable work that in one way or another addresses research and development on issues related to data semantics. Based on the highly visible publication platform Lecture Notes in Computer Science, this new journal is widely disseminated and available worldwide. The scope of the journal ranges from theories supporting the formal definition of semantic content to innovative domain specific applications of semantic knowledge. The journal addresses researchers and advanced practitioners working on the semantic web, interoperability, mobile information services, data warehousing, knowledge representation, and reasoning, conceptual database modeling, ontologies, and artificial intelligence.

Categorical Combinators, Sequential Algorithms, and Functional Programming P.-L. Curien, 2012-12-06

This book is a revised edition of the monograph which appeared under the same title in the series Research Notes in Theoretical Computer Science Pitman in 1986. In addition to a general effort to improve typography, English, and presentation, the main novelty of this second edition is the integration of some new material. Part of it is mine, mostly jointly with coauthors. Here is a brief guide to these additions. I have augmented the account of categorical combinatory logic with a description of the confluence properties of rewriting systems of categorical combinators. Hardin Yokouchi and of the newly developed calculi of explicit substitutions. Abadi, Cardelli, Curien, Hardin, Levy, and Rios, which are similar in spirit to the categorical combinatory logic but are closer to the syntax of a calculus. Section 1.2 The study of the full abstraction problem for PCF and extensions of it has been enriched with a new full abstraction result: the model of sequential algorithms is fully abstract with respect to an extension of PCF with a control operator. Cartwright, Felleisen, Curien. An order extensional model of error sensitive sequential algorithms is also fully abstract for a corresponding extension of PCF with a control operator and errors. Sections 2.6 and 4.1 I suggest that sequential algorithms lend themselves to a decomposition of

the function spaces that leads to models of linear logic Lamarche Curien and that connects sequentiality with games Joyal Blass Abramsky Sections 2.1 and 2.6

The Art of Modelling Computational Systems: A Journey from Logic and Concurrency to Security and Privacy Mário S. Alvim, Kostas Chatzikokolakis, Carlos Olarte, Frank Valencia, 2019-11-04 This Festschrift was published in honor of Catuscia Palamidessi on the occasion of her 60th birthday It features 6 laudations which are available in the front matter of the volume and 25 papers by close collaborators and friends The papers are organized in topical sections named concurrency logic and constraint programming security and privacy and models and puzzles These contributions are a tribute to Catuscia Palamidessi's intellectual depth vision passion for science and tenacity in solving technical problems They also reflect the breadth and impact of her work Her scientific interests include in chronological order principles of programming languages concurrency theory security and privacy

Theoretical Aspects of Computer Software Takayasu Itô, Albert R. Meyer, 1991-08-28 TACS 91 is the first International Conference on Theoretical Aspects of Computer Science held at Tohoku University Japan in September 1991 This volume contains 37 papers and an abstract for the talks presented at the conference TACS 91 focused on theoretical foundations of programming and theoretical aspects of the design analysis and implementation of programming languages and systems The following range of topics is covered logic proof specification and semantics of programs and languages theories and models of concurrent parallel and distributed computation constructive logic category theory and type theory in computer science theory based systems for specifying synthesizing transforming testing and verifying software

Formal Methods for Open Object-Based Distributed Systems Paolo Ciancarini, Alessandro Fantechi, Roberto Gorrieri, 1999-02-28 Formal Methods for Open Object Based Distributed Systems presents the leading edge in several related fields specifically object orientated programming open distributed systems and formal methods for object oriented systems With increased support within industry regarding these areas this book captures the most up to date information on the subject Many topics are discussed including the following important areas object oriented design and programming formal specification of distributed systems open distributed platforms types interfaces and behaviour formalisation of object oriented methods This volume comprises the proceedings of the International Workshop on Formal Methods for Open Object based Distributed Systems FMOODS sponsored by the International Federation for Information Processing IFIP which was held in Florence Italy in February 1999 Formal Methods for Open Object Based Distributed Systems is suitable as a secondary text for graduate level courses in computer science and telecommunications and as a reference for researchers and practitioners in industry commerce and government

The Enigmatic Realm of **Full Abstraction And Semantic Equivalence**: Unleashing the Language is Inner Magic

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second sphere becomes q_2 q_1 r_2 $5q$ r $5q$ 2

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web electrostatics 2 1 the electrostatic field to calculate the force exerted by some electric charges q_1 q_2 q_3 the source charges on another charge q the test charge we can use the principle of superposition this principle states that the interaction between any two charges is completely unaffected by the presence of other charges

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web quiz 01 electrostatics answer each of the following questions if a numerical answer is required please show your work express the answer with the correct number of significant digits and include the algebraic sign where appropriate each question is worth 1 point unless otherwise noted there is no partial credit 1

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web compiled by g izquierdo rodríguez page 2 1 directly proportional to the product of their charges $f \propto q_1 q_2$ 2 inversely proportional to square of the distance between them $f \propto \frac{1}{r^2}$ therefore $f \propto \frac{k q_1 q_2}{r^2}$ coulomb's law in symbols $F = k \frac{q_1 q_2}{r^2}$ coulomb's law the magnitude of the electrostatic force exerted by one point charge q

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web if the force between the particles is 0.0405n what is the strength of the second charge so we rearrange the equation to solve for it what is the electric force between these two point charges are the magnitudes of the point charges is the distance between them and is a constant in this case equal to

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