The Optimal Implementation of Functional Programming Languages

Andrea Asperti and Stefano Guerrini

Optimal Implementation Of Functional Programming Languages

Jiyuan Zhang

Optimal Implementation Of Functional Programming Languages:

The Optimal Implementation of Functional Programming Languages Andrea Asperti, Stefano Guerrini, 1998-12-03 First account of the subject by two of its leading exponents Essentially self contained **Implementation and Application** of Functional Languages Sven-Bodo Scholz, Olaf Chitil, 2011-09-19 This book constitutes the thoroughly refereed post proceedings of the 20th International Workshop on Implementation and Applications of Functional Languages IFL 2008 held in Hatfield UK in September 2008 The 15 revised full papers presented were carefully reviewed and selected from 31 submissions Topics of interest cover a wide range from novel language designs theoretical underpinnings compilation and optimisation techniques for diverse hardware architectures to applications programming techniques and novel tools The Implementation of Functional Programming Languages Simon L. Peyton Jones, 1987 **Functional Programming** Languages and Computer Architecture John Hughes, 1991-08-07 This book offers a comprehensive view of the best and the latest work in functional programming It is the proceedings of a major international conference and contains 30 papers selected from 126 submitted A number of themes emerge One is a growing interest in types powerful type systems or type checkers supporting overloading coercion dynamic types and incremental inference linear types to optimize storage and polymorphic types to optimize semantic analysis The hot topic of partial evaluation is well represented techniques for higher order binding time analysis assuring termination of partial evaluation and improving the residual programs a partial evaluator generates The thorny problem of manipulating state in functional languages is addressed one paper even argues that parallel programs with side effects can be more declarative than purely functional ones Theoretical work covers a new model of types based on projections parametricity a connection between strictness analysis and logic and a discussion of efficient implementations of the lambda calculus The connection with computer architecture and a variety of other topics are Logical Approaches to Computational Barriers Arnold Beckmann, Ulrich Berger, Benedikt Löwe, John also addressed V. Tucker, 2006-06-29 This book constitutes the refereed proceedings of the Second International Conference on Computability in Europe CiE 2006 held in Swansea UK June July 2006 The book presents 31 revised full papers together with 30 invited papers including papers corresponding to 8 plenary talks and 6 special sessions on proofs and computation computable analysis challenges in complexity foundations of programming mathematical models of computers and hypercomputers and G del centenary G del s legacy for computability **Programming Languages and Systems Mooly** Sagiv, 2005-03-23 This book constitutes the refereed proceedings of the 14th European Symposium on Programming ESOP 2005 held in Edinburgh UK in April 2005 as part of ETAPS The 28 revised full papers presented with the extended abstract of an invited paper were carefully reviewed and selected from 14 submissions The papers deal with a broad variety of current issues in the specification analysis and implementation of programming languages and systems Programming **Languages and Systems** Andrew Gordon, 2010-03-17 This book constitutes the refereed proceedings of the 19th European

Symposium on Programming ESOP 2010 held in Paphos Cyprus in March 2010 as part of ETAPS 2010 the European Joint Conferences on Theory and Practice of Software The 30 revised full papers presented together with two invited talks one abstract and one full were carefully reviewed and selected from 121 full paper submissions. The topics addressed include programming paradigms and styles methods and tools to write and specify programs and languages methods and tools for reasoning about programs methods and tools for implementation and concurrency and distribution **Concurrency Theory** Pedro R. D'Argenio, Hernan Melgratti, 2013-07-23 This book constitutes the thoroughly refereed proceedings of the 24th International Conference on Concurrency Theory CONCUR 2013 held in Buenos Aires Argentina August 27 30 2013 The 34 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 115 submissions The papers are organized in topics such as process semantics and modal transition systems VAS and pushdown systems Pi calculus and interaction nets linearizability and verification of concurrent programs verification of infinite models model measure and reversibility stochastic models message based interaction processes principles of automatic verification and games and control synthesis Logic for Programming, Artificial Intelligence, and Reasoning Ken McMillan, Aart Middeldorp, Andrei Voronkov, 2013-12-05 This book constitutes the proceedings of the 19th International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 19 held in December 2013 in Stellenbosch South Africa The 44 regular papers and 8 tool descriptions and experimental papers included in this volume were carefully reviewed and selected from 152 submissions The series of International Conferences on Logic for Programming Artificial Intelligence and Reasoning LPAR is a forum where year after year some of the most renowned researchers in the areas of logic automated reasoning computational logic programming languages and their applications come to present cutting edge results to discuss advances in these fields and to exchange ideas in a scientifically emerging part of the world

Foundations of Software Science and Computation Structures Jean Goubault-Larrecq, Barbara König, 2020-04-17
This open access book constitutes the proceedings of the 23rd International Conference on Foundations of Software Science and Computational Structures FOSSACS 2020 which took place in Dublin Ireland in April 2020 and was held as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2020 The 31 regular papers presented in this volume were carefully reviewed and selected from 98 submissions The papers cover topics such as categorical models and logics language theory automata and games modal spatial and temporal logics type theory and proof theory concurrency theory and process calculi rewriting theory semantics of programming languages program analysis correctness transformation and verification logics of programming software specification and refinement models of concurrent reactive stochastic distributed hybrid and mobile systems emerging models of computation logical aspects of computational complexity models of software security and logical foundations of data bases

Rewriting Techniques and Applications Sophie Tison, 2003-08-02 This book constitutes the refereed proceedings of the 13th International Conference on Rewriting Techniques and Applications RTA

2002 held in Copenhagen Denmark in July 2002 The 20 regular papers two application papers and four system descriptions presented together with three invited contributions were carefully reviewed and selected from 49 submissions All current *Linear Logic in Computer Science* Thomas Ehrhard, 2004-11-15 This book illustrates aspects of rewriting are addressed linear logic in the application of proof theory to computer science Processes, Terms and Cycles: Steps on the Road to Infinity Aart Middeldorp, Vincent van Oostrom, Femke van Raamsdonk, Roel de Vrijer, 2005-12-11 This Festschrift is dedicated to Jan Willem Klop on the occasion of his 60th birthday The volume comprises a total of 23 scientific papers by close friends and colleagues written specifically for this book The papers are different in nature some report on new research others have the character of a survey and again others are mainly expository Every contribution has been thoroughly refereed at least twice In many cases the first round of referee reports led to significant revision of the original paper which was again reviewed The articles especially focus upon the lambda calculus term rewriting and process algebra the fields to which Jan Willem Klop has made fundamental contributions Logic and Foundations of Mathematics Andrea Cantini, Ettore Casari, Pierluigi Minari, 2013-03-09 The IOth International Congress of Logic Methodology and Philosophy of Science which took place in Florence in August 1995 offered a vivid and comprehensive picture of the present state of research in all directions of Logic and Philosophy of Science The final program counted 51 invited lectures and around 700 contributed papers distributed in 15 sections Following the tradition of previous LMPS meetings some authors whose papers aroused particular interest were invited to submit their works for publication in a collection of selected contributed papers Due to the large number of interesting contributions it was decided to split the collection into two distinct volumes one covering the areas of Logic Foundations of Mathematics and Computer Science the other focusing on the general Philosophy of Science and the Foundations of Physics As a leading choice criterion for the present volume we tried to combine papers containing relevant technical results in pure and applied logic with papers devoted to conceptual analyses deeply rooted in advanced present day research After all we believe this is part of the genuine spirit underlying the whole enterprise of LMPS studies

Typed Lambda Calculi and Applications Samson Abramsky,2003-06-29 This book constitutes the refereed proceedings of the 5th International Conference on Typed Lambda Calculi and Applications TLCA 2001 held in Krakow Poland in May 2001 The 28 revised full papers presented were carefully reviewed and selected from 55 submissions The volume reports research results on all current aspects of typed lambda calculi Among the topics addressed are type systems subtypes coalgebraic methods pi calculus recursive games various types of lambda calculi reductions substitutions normalization linear logic cut elimination prelogical relations and mu calculus *Proceedings of the ACM Twentieth Annual Southeast Regional Conference* Association for Computing Machinery. Southeast Regional Conference,1982 **Computer Programming to Insure Project Accountability in Africa** Abdul Karim Bangura,2001 This is the first book of its kind to offer a series of computer programming models for the practical purpose of insuring project accountability in African countries Despite its

practicality the book is also theoretically well grounded By doing so it seeks to extend the epistemological boundaries of both Computer Science and Economics It is therefore useful for students and teachers in those disciplines and for policy makers and practitioners in the field of economic development **Conditional Term Rewriting Systems** Michael Rusinowitch. Jean-Luc Remy, 1993-01-29 This volume contains the papers presented at the Third International Workshop on Conditional Term Rewriting Systems held in Pont Mousson France July 8 10 1992 Topics covered include conditional rewriting and its applications to programming languages specification languages automated deduction constrained rewriting typed rewriting higher order rewriting and graph rewriting The volume contains 40 papers including four invited talks Algebraic semantics of rewriting terms and types by K Meinke Generic induction proofs by P Padawitz Conditional term rewriting and first order theorem proving by D Plaisted and Decidability of finiteness properties abstract by L Pacholski The first CTRS workshop was held at the University of Paris in 1987 and the second at Concordia University Montreal in 1990 Their proceddings are published as Lecture Notes in Computer Science Volumes 308 and 516 respectively Concurrency **Verification** W.-P. de Roever, 2001-11-26 An advanced 2001 textbook on verification of concurrent programs using a semantic approach which highlights concepts clearly **Logic Programming** John Lloyd,1995 The International Logic Programming Symposium is one of two major international conferences sponsored by the Association of Logic Programming Both conferences are held annually The theme for the 1995 conference was Declarative Systems particularly the integration of the logic programming functional programming and object oriented programming paradigms

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