

# The Optimal Implementation of Functional Programming Languages

Andrea Asperti  
and Stefano Guerrini

Optimization  
of the execution  
of functional  
languages

# Optimal Implementation Of Functional Programming Languages

**Aart Middeldorp**

## **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 *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 also addressed

**The Implementation of Functional Programming Languages** Simon L. Peyton Jones,1987

**Logical Approaches to Computational Barriers** Arnold Beckmann,2006-06-26 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

**Processes,**

**Terms and Cycles: Steps on the Road to Infinity** Aart Middeldorp,2005-12-13 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

**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 aspects of rewriting are addressed

**Rewriting Techniques and Applications** Vincent van Oostrom,2004-05-24 This book constitutes

the refereed proceedings of the 15th International Conference on Rewriting Techniques and Applications RTA 2004 held in Aachen Germany in June 2004 *Programming Languages and Systems* ,2000 **ACM SIGPLAN Notices** ,2005-07

**LISP and Functional Programming** ,1982 **ACM Transactions on Programming Languages and Systems**

Association for Computing Machinery,2004 The Cumulative Book Index ,1999 *Programming Language Implementation and Logic Programming* ,1993 Programming Language Implementation and Logic Programming Maurice Bruynooghe,Jaan Penjam,1993 This volume contains the proceedings of the Fifth International Symposium on Programming Language Implementation and Logic Programming PLILP 93 held in Tallinn Estonia in August 1993 The series of PLILP symposiums was established to promote contacts and information exchange among scientists who share common interests in declarative programming techniques logic programming and programming languages implementation Researchers from the fields of algorithmic programming languages as well as logic functional object oriented and constraint programming constitute the audience of PLILP The volume contains three invited talks and 24 selected contributed papers grouped into parts on integration of different paradigms constraint programming static analysis and abstract interpretation grammars narrowing parallelism and implementation techniques The volume closes with six abstracts of systems demonstrations and posters PUBLISHER S WEBSITE **Rewriting Techniques and Applications** ,2002 **Principles and Practice of Declarative Programming** ,2006 Proceedings of the ... International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming ,2006 **ACM Transactions on Computational Logic** ,2010 **Cumulated Index to the Books** ,1999 **Typed Lambda Calculi and Applications** Paweł 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

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