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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Papers -- The Metalanguage ?prolog and Its Implementation -- A Scalable Architecture for Proof-Carrying Code -- Parameterized Logic Programs where Computing Meets Learning -- Functional Programming -- Proving Syntactic Properties of Exceptions in an Ordered Logical Framework -- A Higher-Order Colon Translation -- Compiling Lazy Functional Programs Based on the Spineless Tagless G-machine for the Java Virtual Machine -- Logic Programming -- A Higher-Order Logic Programming Language with Constraints -- Specifying and Debugging Security Protocols via Hereditary Harrop Formulas and ?Prolog ? A Case-study ? -- An Effective Bottom-Up Semantics for First-Order Linear Logic Programs -- Functional Logic Programming -- A Framework for Goal-Directed Bottom-Up Evaluation of Functional Logic Programs -- Theoretical Foundations for the Declarative Debugging of

Lazy Functional Logic Programs -- Adding Linear Constraints over Real  
 Numbers to Curry -- A Complete Selection Function for Lazy  
 Conditional Narrowing -- An Abstract Machine Based System for a Lazy  
 Narrowing Calculus -- Incremental Learning of Functional Logic  
 Programs -- Types -- A General Type Inference Framework for  
 Hindley/Milner Style Systems -- Monadic Encapsulation with Stack of  
 Regions -- Well-Typed Logic Programs Are not Wrong -- Program  
 Analysis and Transformation -- A Framework for Analysis of Typed  
 Logic Programs -- Abstract Compilation for Sharing Analysis -- A  
 Practical Partial Evaluator for a Multi-Paradigm Declarative Language --  
 A Simple Take on Typed Abstract Syntax in Haskell-like Languages --  
 Calculus -- A simply typed context calculus with first-class  
 environments -- Refining the Barendregt Cube using Parameters.

## Sommario/riassunto

This volume contains the proceedings of the Fifth International Symposium on  
 Functional and Logic Programming, FLOPS2001, held in Tokyo, Japan, March  
 7-9, 2001, and hosted by Waseda University.

FLOPS is a forum for research on all issues concerning functional programming  
 and logic programming. In particular, it aims to stimulate the cross-  
 fertilization as well as the integration of the two paradigms.

The previous FLOPS meetings took place in Fuji-Susono (1995), Shonan  
 (1996), Kyoto (1998), and Tsukuba (1999). The proceedings of FLOPS'99  
 were published by Springer-Verlag as Lecture Notes in Computer Science,  
 volume 1722. There were 40 submissions, 38 of which were considered  
 by the program committee. They came from Australia (5), Belgium ( ),  
 Denmark (3), Egypt (3), France (1), Germany (2), Italy (4),  
 Japan (5), Korea (1), Mexico (2), The Netherlands (1),  
 Spain (10), Switzerland (1), UK (1), and USA (6).

Each paper was reviewed by at least three, and mostly four, reviewers. 2  
 The program committee meeting was conducted electronically for the period  
 of two weeks in November 2000. As a result of active discussions, 21 papers  
 (52.5%) were selected for presentation, which appear in this volume.

In addition, we are

very pleased to include in this volume full papers by three distinguished invited  
 speakers, namely Gopalan Nadathur, George Necula, and Taisuke Sato.

On behalf of the program committee, the program chairs would like to thank  
 the invited speakers who agreed to give talks and contribute papers,  
 all those who submitted papers,  
 and all the referees for their careful work in the reviewing and  
 selection process.

The support of our sponsors is also gratefully acknowledged. In particular,  
 we would like to thank the Japan Society for Software Science and Technology  
 (JSSST), Special Interest Group on Principles of Programming,  
 and the Association for Logic Programming (ALP). Finally, we would like to  
 thank the members of the organizing committee, notably Zhenjiang Hu,  
 Yasuhiro Ajiro, Kazuhiko Kakehi, and Madoka Kuniyasu, for their  
 invaluable support

throughout the preparation and organization of the symposium.

January 2001 Herbert Kuchen Kazunori Ueda Symposium Organization  
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