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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, FLOPS 2001, 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 meeting 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 (), Germany (2), Italy (4), Japan (5), Korea (1), Mexico (2), 3, 3, 2, 1, 1, 5 (1), The Netherlands (1), Spain (10), Switzerland (1), UK (1), and USA (6), 6, 6, 1 (1).

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 Program Chairs Herbert Kuchen University of Munster, "Germany Kazunori Ueda Waseda University, Tokyo, Japan Program Committee Sergio Antoy Portland State University, USA Gopal Gupta University of Texas at Dallas, USA Michael Hanus University of Kiel, Germany Fergus Henderson University of Melbourne, Australia Zhenjiang Hu University of Tokyo, Japan Herbert Kuchen University of Munster, "Germany Giorgio Levi University of Pisa, Italy Michael Maher Griffith University, Brisbane, Australia Dale Miller Pennsylvania State University, USA I. V. Ramakrishnan State University of New York at Stony Brook, USA Olivier Ridoux IRISA, Rennes, France Mario Rodriguez-Artalejo Complutense

