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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Semantics and Types in Functional Logic Programming -- Polytypic Programming With Ease -- Type Inference for Overloading without Restrictions, Declarations or Annotations -- Partial Evaluation and Non-interference for Object Calculi -- Lazy Lexing is Fast -- A Functional-Logic Perspective of Parsing -- Implementing Encapsulated Search for a Lazy Functional Logic Language -- Comparison of Deforestation Techniques for Functional Programs and for Tree Transducers -- Automatic Verification Based on Abstract Interpretation -- A Transformation System for Lazy Functional Logic Programs -- Termination Analysis of Tabled Logic Programs Using Mode and Type Information -- On Quasi-Reductive and Quasi-Simplifying Deterministic Conditional Rewrite Systems -- An Interval Lattice-Based Constraint Solving Framework for Lattices -- Higher Order Matching for Program Transformation -- Automated Generalisation of Function Definitions -- An Extensional Characterization of Lambda-Lifting and Lambda-Dropping -- Using Types as Approximations for Type Checking Prolog Programs -- Typed Static Analysis: Application to Groundness Analysis of Prolog and ? Prolog -- A Space Efficient Engine for Subsumption-Based Tabled Evaluation of Logic Programs -- The Logical Abstract Machine: A Curry-Howard Isomorphism for Machine

Code -- On Reducing the Search Space of Higher-Order Lazy
Narrowing -- Typed Higher-Order Narrowing without Higher-Order
Strategies -- A Semantics for Program Analysis in Narrowing-Based
Functional Logic Languages.

Sommario/riassunto

This volume contains the papers presented at the 4th Fuji International Symposium on Functional and Logic Programming (FLOPS'99) held in Tsukuba, Japan, November 11–13, 1999, and hosted by the Electrotechnical Laboratory (ETL). FLOPS is a forum for presenting and discussing all issues concerning functional programming, logic programming, and their integration. The symposium takes place about every 1.5 years in Japan. Previous FLOPS meetings were held in Fuji Susuno (1995), Shonan Village (1996), and Kyoto (1998). 1 There were 51 submissions from Austria (), Belgium (2), Brazil (3), China (3), Denmark (2), France (3), Germany (8), Ireland (1), Israel (), Italy (1), 4 3 12 1 Japan (9), Korea (1), Morocco (1), The Netherlands (1), New Zealand (1), 3 1 1 3 5 Portugal (), Singapore (), Slovakia (1), Spain (4), Sweden (1), UK (4), 2 3 4 6 1 and USA (2), of which the program committee selected 21 for presentation. In 4 addition, this volume contains full papers by the two invited speakers, Atsushi Ohori and Mario Rodr guez-Artalejo.
