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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Compiler Generation -- Data Structure Free Compilation -- Debugging Eli-Generated Compilers with Noosa -- Faster Generalized LR Parsing -- Interprocedural Analysis -- Interprocedural Path Profiling -- Experimental Comparison of Call String and Functional Approaches to Interprocedural Analysis -- Link-Time Improvement of Scheme Programs -- Code Optimization -- Expansion-Based Removal of Semantic Partial Redundancies -- Register Pressure Sensitive Redundancy Elimination -- Code Optimization by Integer Linear Programming -- Evaluation of Algorithms for Local Register Allocation -- Parallelization Techniques -- Efficient State-Diagram Construction Methods for Software Pipelining -- A Comparison of Compiler Tiling Algorithms -- Implementation Issues of Loop-Level Speculative Run-Time Parallelization -- Compiler Systems -- Compilation and Memory Management for ASF+SDF -- The Design of the PROMIS Compiler -- Program Transformation -- Floating Point to Fixed Point Conversion of C Code -- Optimizing Object-Oriented Languages through Architectural Transformations -- Cache Specific Optimization -- Virtual Cache Line: A New Technique to Improve Cache Exploitation for Recursive Data Structures -- Extending Modulo Scheduling with Memory Reference Merging -- Tool Demonstrations -- TRAPPING Modelica with Python -- A Programmable ANSI C Transformation

Engine -- Tool Support for Language Design and Prototyping with Montages.

Sommario/riassunto

ETAPS'99 is the second instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprises 5 conferences (FOSSACS, FASE, ESOP, CC, TACAS), four satellite workshops (CMCS, AS, WAGA, CoFI), seven invited lectures, two invited tutorials, and six contributed tutorials. The events that comprise ETAPS address various aspects of the system - v elopment process, including specification, design, implementation, analysis and improvement. The languages, methodologies and tools which support these - vities are all well within its scope. Di?erent blends of theory and practice are represented, with an inclination towards theory with a practical motivation on one hand and soundly-based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.