

1. Record Nr.	UNISA996465711703316
Autore	Wilhelm Reinhard
Titolo	Compiler Construction [[electronic resource]] : 10th International Conference, CC 2001 Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2001 Genova, Italy, April 2-6, 2001 Proceedings // by Reinhard Wilhelm
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001
ISBN	3-540-45306-7
Edizione	[1st ed. 2001.]
Descrizione fisica	1 online resource (XII, 376 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2027
Altri autori (Persone)	WilhelmR <1946-> (Reinhard)
Disciplina	005.4/53
Soggetti	Programming languages (Electronic computers) Operating systems (Computers) Computer logic Mathematical logic Software engineering Artificial intelligence Programming Languages, Compilers, Interpreters Operating Systems Logics and Meanings of Programs Mathematical Logic and Formal Languages Software Engineering Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Paper -- Virtual Classes and Their Implementation -- Program Analysis -- Alias Analysis by Means of a Model Checker -- Points-to and Side-Effect Analyses for Programs Built with Precompiled Libraries -- A Novel Probabilistic Data Flow Framework -- Program Transformation -- Imperative Program Transformation by Rewriting -- Compiler Transformation of Pointers to Explicit Array Accesses in DSP Applications -- User-Extensible Simplification—Type-Based Optimizer Generators -- A Practical, Robust Method for Generating Variable

Range Tables -- Program Analysis -- Efficient Symbolic Analysis for Optimizing Compilers -- Interprocedural Shape Analysis for Recursive Programs -- Design-Driven Compilation -- Intraprocessor Parallelism -- Software Pipelining of Nested Loops -- A First Step Towards Time Optimal Software Pipelining of Loops with Control Flows -- Comparing Tail Duplication with Compensation Code in Single Path Global Instruction Scheduling -- Register Saturation in Superscalar and VLIW Codes -- Parsing -- Directly-Executable Earley Parsing -- A Bounded Graph-Connect Construction for LR-regular Parsers -- Memory Hierarchy -- Array Unification: A Locality Optimization Technique -- Optimal Live Range Merge for Address Register Allocation in Embedded Programs -- Speculative Prefetching of Induction Pointers -- Constant-Time Root Scanning for Deterministic Garbage Collection -- Profiling -- Goal-Directed Value Profiling -- A Framework for Optimizing Java Using Attributes -- Demos -- SmartTools: A Generator of Interactive Environments Tools -- Visual Patterns in the VLEli System -- The Asf+Sdf Meta-environment: A Component-Based Language Development Environment.

Sommario/riassunto

ETAPS 2001 was the fourth 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 comprised several conferences (FOSSACS, FASE, ESOP, CC, TACAS), ten satellite workshops (CMCS, ETI Day, JOSES, LDTA, MMAABS, PFM, ReMiS, UNIGRA, WADT, WTUML), seven invited lectures, a debate, and ten tutorials. The events that comprise ETAPS address various aspects of the system development process, including specification, design, implementation, analysis, and improvement. The languages, methodologies, and tools which support these activities are all well within its scope. Different 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.
