

1. Record Nr.	UNINA9910484100503321
Titolo	Compiler Construction : 16th International Conference, CC 2007, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2007, Braga, Portugal, March 26-30, 2007, Proceedings // edited by Shriram Krishnamurthi, Martin Odersky
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2007
ISBN	1-280-95151-6 9786610951512 3-540-71229-1
Edizione	[1st ed. 2007.]
Descrizione fisica	1 online resource (244 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4420
Disciplina	005.453
Soggetti	Compilers (Computer programs) Computer science Machine theory Software engineering Artificial intelligence Compilers and Interpreters Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Software Engineering Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	International conference proceedings.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Architecture -- New Algorithms for SIMD Alignment -- Preprocessing Strategy for Effective Modulo Scheduling on Multi-issue Digital Signal Processors -- An Array Allocation Scheme for Energy Reduction in Partitioned Memory Architectures -- Garbage Collection and Program Analysis -- Using Prefetching to Improve Reference-Counting Garbage Collectors -- Accurate Garbage Collection in Uncooperative Environments with Lazy Pointer Stacks -- Correcting the Dynamic Call Graph Using Control-Flow Constraints -- Obfuscating Java: The Most

Pain for the Least Gain -- Register Allocation -- A Fast Cutting-Plane Algorithm for Optimal Coalescing -- Register Allocation and Optimal Spill Code Scheduling in Software Pipelined Loops Using 0-1 Integer Linear Programming Formulation -- Extended Linear Scan: An Alternate Foundation for Global Register Allocation -- Program Analysis -- Program Refactoring, Program Synthesis, and Model-Driven Development -- A Practical Escape and Effect Analysis for Building Lightweight Method Summaries -- Layout Transformations for Heap Objects Using Static Access Patterns -- A New Elimination-Based Data Flow Analysis Framework Using Annotated Decomposition Trees -- A Declarative Framework for Analysis and Optimization.

Sommario/riassunto

This book constitutes the refereed proceedings of the 16th International Conference on Compiler Construction, CC 2007, held in Braga, Portugal, in March 2007 as part of ETAPS 2007, the European Joint Conferences on Theory and Practice of Software. The 15 revised full papers presented were carefully reviewed and selected from 60 submissions. The papers are organized in topical sections on architecture, garbage collection and program analysis, register allocation, and program analysis.
