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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5501
Disciplina	005.13
Soggetti	Compilers (Computer programs) Computer engineering Computer networks Software engineering Computer systems Computer science Algorithms Compilers and Interpreters Computer Engineering and Networks Software Engineering Computer System Implementation Computer Science Logic and Foundations of Programming
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Challenges in Code Optimization of Parallel Programs -- Extensible Proof-Producing Compilation -- From Specification to Optimisation: An Architecture for Optimisation of Java Bytecode -- A Framework for Exploring Optimization Properties -- Compile-Time Analysis and Specialization of Clocks in Concurrent Programs -- Implementation and Use of Transactional Memory with Dynamic Separation -- Exploiting Speculative TLP in Recursive Programs by Dynamic Thread Prediction --

Live Debugging of Distributed Systems -- Parsing C/C++ Code without Pre-processing -- Faster Scannerless GLR Parsing -- Decorated Attribute Grammars: Attribute Evaluation Meets Strategic Programming -- SSA Elimination after Register Allocation -- Register Spilling and Live-Range Splitting for SSA-Form Programs -- Loop-Aware Instruction Scheduling with Dynamic Contention Tracking for Tiled Dataflow Architectures -- Scheduling Tasks to Maximize Usage of Aggregate Variables in Place -- Dynamic Look Ahead Compilation: A Technique to Hide JIT Compilation Latencies in Multicore Environment -- Precise Management of Scratchpad Memories for Localising Array Accesses in Scientific Codes -- Blind Optimization for Exploiting Hardware Features -- How to CPS Transform a Monad.

Sommario/riassunto

This book constitutes the refereed proceedings of the 18th International Conference on Compiler Construction, CC 2009, held in York, UK, in March 2009 as part of ETAPS 2009, the European Joint Conferences on Theory and Practice of Software. Following a very thorough review process, 18 full research papers were selected from 72 submissions. Topics covered include traditional compiler construction, compiler analyses, runtime systems and tools, programming tools, techniques for specific domains, and the design and implementation of novel language constructs.
