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		Computer science
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		Software engineering
		Artificial intelligence
		Compilers and Interpreters
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	Nota di contenuto	Papers from Invited Talks -- Design Choices in a Compiler Course or How to Make Undergraduates Love Formal Notation -- Improved Memory-Access Analysis for x86 Executables -- Analyses and Transformations -- A System for Generating Static Analyzers for Machine Instructions -- IDE Dataflow Analysis in the Presence of Large Object-Oriented Libraries -- An Adaptive Strategy for Inline Substitution -- Automatic Transformation of Bit-Level C Code to Support Multiple Equivalent Data Layouts -- Compiling for Parallel Architectures -- Control Flow Emulation on Tiled SIMD Architectures -- Generating SIMD Vectorized Permutations -- Automatic Transformations for Communication-Minimized Parallelization and

Locality Optimization in the Polyhedral Model -- Runtime Techniques and Tools -- How to Do a Million Watchpoints: Efficient Debugging Using Dynamic Instrumentation -- Compiler-Guaranteed Safety in Code-Copying Virtual Machines -- Hardware JIT Compilation for Off-the-Shelf Dynamically Reconfigurable FPGAs -- Visualization of Program Dependence Graphs -- Analyses -- On the Relative Completeness of Bytecode Analysis Versus Source Code Analysis -- Efficiency, Precision, Simplicity, and Generality in Interprocedural Data Flow Analysis: Resurrecting the Classical Call Strings Method -- Java Bytecode Verification for @NonNull Types -- Efficient Context-Sensitive Shape Analysis with Graph Based Heap Models -- Atomicity and Transactions -- Coqa: Concurrent Objects with Quantized Atomicity -- Keep Off the Grass: Locking the Right Path for Atomicity -- Supporting Legacy Binary Code in a Software Transaction Compiler with Dynamic Binary Translation and Optimization.

| Sommario/riassunto | This book constitutes the proceedings of the 17th International Conference on Compiler Construction, CC 2008. It covers analysis and transformations, compiling for parallel architectures, runtime techniques and tools, analyses, and atomicity and transactions. |