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Soggetti	Special purpose computers Computer system failures Software engineering Programming languages (Electronic computers) Operating systems (Computers) Computer programming Special Purpose and Application-Based Systems System Performance and Evaluation Software Engineering Programming Languages, Compilers, Interpreters Operating Systems Programming Techniques
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Performance Analysis and Algorithms -- Self-timed Scheduling and Execution of Nonlinear Pipelines with Parallel Stages -- MVA-based Probabilistic Model of Shared Memory with Round Robin Arbiter for Predicting Performance With Heterogeneous -- Workload -- MHS2 : A Map-Reduce heuristic-driven minimal hitting set search algorithm -- Programming Models and Optimization -- Handling Parallelism in a Concurrency Model -- On the Relevance of Total-Order Broadcast Implementations in Replicated Software Transactional Memories --

	How to Cancel a Task -- Testing and Debugging -- Automatically Repairing Concurrency Bugs with ARC -- A Modular Approach to Model-Based Testing of Concurrent Programs -- A Dynamic Approach to Isolating Erroneous Event Patterns in Concurrent Program Executions.
Sommario/riassunto	This book constitutes the refereed proceedings of the International Conference on Multiscore Software Engineering, Performance, and Tools, MUSEPAT 2013, held in Saint Petersburg, Russia, in August 2013. The 9 revised papers were carefully reviewed and selected from 25 submissions. The accepted papers are organized into three main sessions and cover topics such as software engineering for multicore systems; specification, modeling and design; programing models, languages, compiler techniques and development tools; verification, testing, analysis, debugging and performance tuning, security testing; software maintenance and evolution; multicore software issues in scientific computing, embedded and mobile systems; energy-efficient computing as well as experience reports.