

1. Record Nr.	UNISA996465807403316
Titolo	High Performance Computing -- HiPC 2003 [[electronic resource]] : 10th International Conference, Hyderabad, India, December 17-20, 2003, Proceedings // edited by Timothy Mark Pinkston, Viktor K. Prasanna
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	1-280-30655-6 9786610306558 3-540-24596-0
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (XX, 512 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2913
Disciplina	004.1/1
Soggetti	Microprocessors Software engineering Computer organization Computers Algorithms Numerical analysis Processor Architectures Software Engineering/Programming and Operating Systems Computer Systems Organization and Communication Networks Computation by Abstract Devices Algorithm Analysis and Problem Complexity Numeric Computing
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 at the end of each chapters and index.
Nota di contenuto	Keynote Address -- Life's Duplicities: Sex, Death, and Valis -- Session I -- Performance Issues and Power-Aware Architectures -- Performance Analysis of Blue Gene/L Using Parallel Discrete Event Simulation -- An Efficient Web Cache Replacement Policy -- Timing Issues of Operating Mode Switch in High Performance Reconfigurable Architectures --

Power-Aware Adaptive Issue Queue and Register File -- FV-MSB: A Scheme for Reducing Transition Activity on Data Buses -- Session II -- Parallel/Distributed and Network Algorithms -- A Parallel Iterative Improvement Stable Matching Algorithm -- Self-Stabilizing Distributed Algorithm for Strong Matching in a System Graph -- Parallel Data Cube Construction: Algorithms, Theoretical Analysis, and Experimental Evaluation -- Efficient Algorithm for Embedding Hypergraphs in a Cycle -- Mapping Hypercube Computations onto Partitioned Optical Passive Star Networks -- Keynote Address -- The High Performance Microprocessor in the Year 2013: What Will It Look Like? What It Won't Look Like? -- Session III -- Routing in Wireless, Mobile, and Cut-Through Networks -- FROOTS -- Fault Handling in Up*/Down* Routed Networks with Multiple Roots -- Admission Control for DiffServ Based Quality of Service in Cut-Through Networks -- On Shortest Path Routing Schemes for Wireless Ad Hoc Networks -- A Hierarchical Routing Method for Load-Balancing -- Ring Based Routing Schemes for Load Distribution and Throughput Improvement in Multihop Cellular, Ad hoc, and Mesh Networks -- Session IV -- Scientific and Engineering Applications -- A High Performance Computing System for Medical Imaging in the Remote Operating Room -- Parallel Partitioning Techniques for Logic Minimization Using Redundancy Identification -- Parallel and Distributed Frequent Itemset Mining on Dynamic Datasets -- A Volumetric FFT for BlueGene/L -- A Nearly Linear-Time General Algorithm for Genome-Wide Bi-allele Haplotype Phasing -- Keynote Address -- Energy Aware Algorithm Design via Probabilistic Computing: From Algorithms and Models to Moore's Law and Novel (Semiconductor) Devices -- Session V -- System Support in Overlay Networks, Clusters, and Grid -- Designing SANs to Support Low-Fanout Multicasts -- POMA: Prioritized Overlay Multicast in Ad Hoc Environments -- Supporting Mobile Multimedia Services with Intermittently Available Grid Resources -- Exploiting Non-blocking Remote Memory Access Communication in Scientific Benchmarks -- Session VI -- Scheduling and Software Algorithms -- Scheduling Directed A-Cyclic Task Graphs on Heterogeneous Processors Using Task Duplication -- Double-Loop Feedback-Based Scheduling Approach for Distributed Real-Time Systems -- Combined Scheduling of Hard and Soft Real-Time Tasks in Multiprocessor Systems -- An Efficient Algorithm to Compute Delay Set in SPMD Programs -- Dynamic Load Balancing for I/O-Intensive Tasks on Heterogeneous Clusters -- Keynote Address -- Standards Based High Performance Computing -- Session VII -- Network Design and Performance Issues -- Delay and Jitter Minimization in High Performance Internet Computing -- An Efficient Heuristic Search for Optimal Wavelength Requirement in Static WDM Optical Networks -- Slot Allocation Schemes for Delay Sensitive Traffic Support in Asynchronous Wireless Mesh Networks -- Multicriteria Network Design Using Distributed Evolutionary Algorithm -- Session VIII -- Grid Applications and Architecture Support -- GridOS: Operating System Services for Grid Architectures -- Hierarchical and Declarative Security for Grid Applications -- A Middleware Substrate for Integrating Services on the Grid -- Performance Analysis of a Hybrid Overset Multi-block Application on Multiple Architectures -- Complexity Analysis of a Cache Controller for Speculative Multithreading Chip Multiprocessors -- Keynote Address -- One Chip, One Server: How Do We Exploit Its Power? -- Session IX -- Performance Evaluation and Analysis -- Data Locality Optimization for Synthesis of Efficient Out-of-Core Algorithms -- Performance Evaluation of Working Set Scheme for Location Management in PCS Networks -- Parallel Performance of the Interpolation Supplemented Lattice Boltzmann

Method -- Crafting Data Structures: A Study of Reference Locality in
Refinement-Based Pathfinding -- Improving Performance Analysis
Using Resource Management Information -- Session X – Scheduling and
Migration -- Optimizing Dynamic Dispatches through Type Invariant
Region Analysis -- Thread Migration/Checkpointing for Type-Unsafe C
Programs -- Web Page Characteristics-Based Scheduling -- Controlling
Kernel Scheduling from User Space: An Approach to Enhancing
Applications' Reactivity to I/O Events -- High-Speed Migration by
Anticipative Mobility.
