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Nota di contenuto	Keynote Addresses -- Data Confidentiality in Collaborative Computing -- Productivity in High Performance Computing -- A New Approach to Programming and Prototyping Parallel Systems -- The Changing Challenges of Collaborative Algorithmics -- Quantum Physics and the Nature of Computation -- Plenary Session - Best Papers -- Preemption Adaptivity in Time-Published Queue-Based Spin Locks -- Criticality Driven Energy Aware Speculation for Speculative Multithreaded Processors -- Session I - Algorithms -- Search-Optimized Suffix-Tree Storage for Biological Applications -- Cost-Optimal Job Allocation Schemes for Bandwidth-Constrained Distributed Computing Systems -- A Fault Recovery Scheme for P2P Metacomputers -- A Distributed Location Identification Algorithm for Ad hoc Networks Using Computational Geometric Methods -- A Symmetric Localization Algorithm for MANETs Based on Collapsing Coordinate Systems -- Session II - Applications -- Performance Study of LU Decomposition on the Programmable GPU -- PENCAPS: A Parallel Application for Electrode Encased Grounding Systems Project -- Application of Reduce Order Modeling to Time Parallelization -- Orthogonal Decision Trees for Resource-Constrained Physiological Data Stream Monitoring Using Mobile Devices -- Throughput Computing with Chip MultiThreading and Clusters -- Session III - Architecture -- Supporting MPI-2 One Sided Communication on Multi-rail InfiniBand Clusters: Design Challenges and Performance Benefits -- High Performance RDMA Based

All-to-All Broadcast for InfiniBand Clusters -- Providing Full QoS Support in Clusters Using Only Two VCs at the Switches -- Offloading Bloom Filter Operations to Network Processor for Parallel Query Processing in Cluster of Workstations -- A High-Speed VLSI Array Architecture for Euclidean Metric-Based Hausdorff Distance Measures Between Images -- Session IV - Applications -- Sensor Selection Heuristic in Sensor Networks -- Mobile Pipelines: Parallelizing Left-Looking Algorithms Using Navigational Programming -- Distributed Point Rendering -- An Intra-task DVS Algorithm Exploiting Program Path Locality for Real-Time Embedded Systems -- Advanced Resource Management and Scheduling of Workflow Applications in JavaSymphony -- Session V - Systems Software -- Using Clustering to Address Heterogeneity and Dynamism in Parallel Scientific Applications -- Data and Computation Abstractions for Dynamic and Irregular Computations -- XCAT-C++: Design and Performance of a Distributed CCA Framework -- The Impact of Noise on the Scaling of Collectives: A Theoretical Approach -- Extensible Parallel Architectural Skeletons -- Session VI - Communication Networks -- An Efficient Distributed Algorithm for Finding Virtual Backbones in Wireless Ad-Hoc Networks -- A Novel Battery Aware MAC Protocol for Minimizing Energy x Latency in Wireless Sensor Networks -- On the Power Optimization and Throughput Performance of Multihop Wireless Network Architectures -- A Novel Solution for Time Synchronization in Wireless Ad Hoc and Sensor Networks -- An Algorithm for Boundary Discovery in Wireless Sensor Networks -- Session VII - Architecture -- A Low-Complexity Issue Queue Design with Speculative Pre-execution -- Performance and Power Evaluation of an Intelligently Adaptive Data Cache -- Neural Confidence Estimation for More Accurate Value Prediction -- The Potential of On-Chip Multiprocessing for QCD Machines -- Low-Power 32bitx32bit Multiplier Design with Pipelined Block-Wise Shutdown -- Session VIII - Communication Networks -- Performance Analysis of User-Level PIM Communication in the Data IntensiVe Architecture (DIVA) System -- Improved Point-to-Point and Collective Communication Performance with Output-Queued High-Radix Routers -- A Clustering and Traffic-Redistribution Scheme for High-Performance IPsec VPNs -- WDM Multistage Interconnection Networks Architectures for Enhancing Supernetworks Switching Infrastructure -- Learning-TCP: A Novel Learning Automata Based Congestion Window Updating Mechanism for Ad hoc Wireless Networks -- Session IX - Algorithms -- Design and Implementation of the HPCS Graph Analysis Benchmark on Symmetric Multiprocessors -- Scheduling Multiple Flows on Parallel Disks -- Snap-Stabilizing Detection of Cutsets -- Scheduling Divisible Loads with Return Messages on Heterogeneous Master-Worker Platforms -- Session X - Systems and Networks -- A Grid Authentication System with Revocation Guarantees -- Integrating a New Cluster Assignment and Scheduling Algorithm into an Experimental Retargetable Code Generation Framework -- Cooperative Instruction Scheduling with Linear Scan Register Allocation -- iSCSI Analysis System and Performance Improvement of iSCSI Sequential Access in High Latency Networks.
