

<<Euro-Par 2004 Parall>>

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内容概要

This book constitutes the refereed proceedings of the 10th International Conference on Parallel Computing, Euro-Par 2004, held in Pisa, Italy in August/September 2004. The 122 revised papers presented together with 3 invited papers were carefully reviewed and selected from 352 submissions. The papers are organized in topical sections on support tools and environments, performance evaluation, scheduling and load balancing, compilers and high performance, parallel and distributed databases, grid and cluster computing, applications on high performance clusters, parallel computer architecture and ILP, distributed systems and algorithms, parallel programming, numerical algorithms, high performance multimedia, theory and algorithms for parallel computing, routing and communication in interconnection networks, mobile computing, integrated problem solving environments, high performance bioinformatics, and peer-to-peer and Web computing.

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书籍目录

Invited Talks Building Grid Applications and Portals:An Approach Based on Components, Web Services and Workflow Tools Maintaining Thousands of In-Flight Instructions Some Techniques for Automated, Resource-Aware Distributed and Mobile Computing in a Multi-paradigm Programming System Why Structured Parallel Programming MattersTopic 1: Support Tools and Environments Topic 1: Support Tools and Environments. Profiling and Tracing OpenMP Applications with POMP Based Monitoring Libraries Efficient Pattern Search in Large Traces Through Successive Refinement DRAC: Adaptive Control System with Hardware Performance Counters Reproducible Network Benchmarks with coNCEPTUAL Optimizing Cache Access: A Tool for Source-to-Source Transformations and Real-Life Compiler Tests Detecting Data Races in Sequential Programs with DIOTA A Time-Coherent Model for the Steering of Parallel Simulations MATE: Dynamic Performance Tuning Environment Imprecise Exceptions in Distributed Parallel ComponentsTopic 2: Performance Evaluation Topic 2: Performance Evaluation Overhead Compensation in Performance Profiling A Data Structure Oriented Monitoring Environment for Fortran OpenMP Programs An Approach for Symbolic Mapping of Memory References Impact of Cache Coherence Models on Performance of OpenMP Applications Evaluating OpenMP Performance Analysis tools with the APART Test Suite Collective Communication Performance Analysis Within the Communication System Understanding the Behavior and Performance of Non-blocking Communications in MPI Generation of Simple Analytical Models for Message Passing Applications Parallel Hybrid Particle Simulations Using MPI and OpenMP Distributed Shared Memory: To Relax or Not to Relax?Topic 3:Scheduling and Load BalancingTopic 4:Compilers for High PerformancdTopic 5:Parallel and Distributed Databases,Data Mining and Knowledge DiscoveryTopic 6:Grid and Cluster Computing Topic 7:Applecations on High Performance Computers Topic 8:Parallel Computer Architecture and ILPTopic 9:Distributed Systems and AlgorithmsTopic 10:Parallel Programming:Models,Methods and LanguagesTopic 11:Numerical Algorithms Topic 12:High Performance Multimedia Topic 13:Theory and Algorithms for Parallel Computation Topic 14:Routing and Communication IN Interconnection Networks Topic 15:Mobile Computing Topic 16:Integrated Problem Solving Environments Topic 17:High Performance Bioinformatics Topic 18:Peer-to-Peer and Web ComputingAuthor Index

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