

<<应用并行计算>>

图书基本信息

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作者：Juha Fagerholm

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内容概要

This book constitutes the refereed proceedings of the 6th International Conference on Applied Parallel Computing, PARA 2002, held in Espoo, Finland, in June 2002. The 50 revised full papers presented together with nine keynote lectures were carefully reviewed and selected for inclusion in the proceedings. The papers are organized in topical sections on data mining and knowledge discovery, parallel program development, practical experience in parallel computing, computer science, numerical algorithms with hierarchical memory optimization, numerical methods and algorithms, cluster computing, grid and network technologies, and physics and applications.

书籍目录

I Keynote Lectures Enabling Numerical and Software Technologies for Studying the Electrical Activity in Human Heart Parallel Patient-Specific Computational Haemodynamics High Performance Computing, Computational Grid, and Numerical Libraries Grid Computing: Enabling a Vision for Collaborative Research HPC-What Might the Future Hold? Multi-physics and Multi-scale Modelling of Materials Processing Co-array Fortran for Full and Sparse Matrices Measuring the Local Geometry of Valleys in Complex Energy Landscapes by Exhaustive Exploration: The Lid Method An Overview of an Architecture Proposal for a High Energy Physics GridII Datamining and Knowledge Discovery A Data Mining Architecture for Clustered Environments Automated Fitting and Rational Modeling Algorithm for EM-Based S-Parameter Data A Proposal of High Performance Data Mining System A Quasi-Parallel Realization of the Investment Frontier in Computer Resource Allocation Using Simple Genetic Algorithm on a Single Computer Parallelism in Knowledge Discovery TechniquesIII Parallel Program Development A New Approach to Parallel Debugger Architecture ALCOR-An Algorithmic Concept Recognition Tool to Support High Level Parallel Program Development MPIT-Communication/Computation Paradigm for Networks of SMP Workstations Code Optimization Techniques of Data-Intensive Tasks onto Statically Scheduled Architectures: Optimal Performance on the TigerSharclV Practical Experiences in Parallel Computing PIT: A Library for the Parallelization of Irregular Problems Parallel Information Retrieval with Query Expansion Reducing Communication Cost for Parallelizing Irregular Scientific Codes Implementation of Parallel Collection Equi-Join Using MPI Practical Experiences in Parallelizing Existent Computer ProgramsV Computer ScienceVI Numerical Algorithms with Hierarchical Memory OptimizationVII Numerical Methods and Algorithms AVIII Numerical Methods and Algorithms BIX Numerical Methods and Algorithms CX Experiences with Cluster Computing AXI Experiences with Cluster Computing BXII Grid and Network TechnologiesXIII Physics and ApplicationsAuthor Index

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