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This book constitutes the thoroughly refereed post-proceedings of the 6th International Conference on High Performance Computing for Computational Science, VECPAR 2004, held in Valencia, Spain, in June 2004. The 48 revised full papers presented together with 5 invited papers were carefully selected during two rounds of reviewing and improvement from initially 130 contributions. The papers are organized in topical sections on large-scale computations, data management and data mining, GRID computing infrastructure, cluster computing, parallel and distributed computing, and computational linear and non-linear algebra.

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Chapter 1: Large Scale Computations Large Scale Simulations Development and Integration of Parallel Multidisciplinary Computational Software for Modeling a Modern Manufacturing Process Automatically Tuned FFTs for BlueGene/L's Double FPU A Survey of High-Quality Computational Libraries and Their Impact in Science and Engineering Applications A Performance Evaluation of the Cray X1 for Scientific Applications Modelling Overhead of Tuple Spaces with Design of Experiments Analysis of the Interaction of Electromagnetic Signals with Thin-Wire Structures Multiprocessing Issues for an Iterative Method A Performance Prediction Model for Tomographic Reconstruction in Structural BiologyChapter 2: Data Management and Data Mining Data Management in Large-Scale P2P Systems A High Performance System for Processing Queries on Distributed Geospatial Data Sets Parallel Implementation of Information Retrieval Clustering Models Distributed Processing of Large BioMedical 3D Images Developing Distributed Data Mining Applications in the KNOWLEDGE GRID Framework Scaling Up the Preventive Replication of Autonomous Databases in Cluster Systems Parallel Implementation of a Fuzzy Rule Based ClassifierChapter 3: Grid Computing Infrastructure The EGEE European Grid Infrastructure Project Grid Technology to Biomedical Applications Three-Dimensional Cardiac Electrical Activity Simulation on Cluster and Grid Platforms 2DRMP-G: Migrating a Large-Scale Numerical Mathematical Application to a Grid Environment Design of an OGSA-Compliant Grid Information Service Using .NET TechnologiesChapter 4: Cluster Computing Chapter 5: Parallel and Distributed Computing Chapter 6: Linear and Non-Linear Algebra Author Index

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