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Nota di contenuto	Grid Economy -- Capacity Planning in Economic Grid Markets -- A Financial Option Based Grid Resources Pricing Model: Towards an Equilibrium between Service Quality for User and Profitability for Service Providers -- Negotiating and Enforcing QoS and SLAs in Grid and Cloud Computing -- Grid Security -- Dynamic and Secure Data Access Extensions of Grid Boundaries -- Proxy Restrictions for Grid Usage -- An Account Policy Model for Grid Environments -- Providing Security of

Real Time Data Intensive Applications on Grids Using Dynamic Scheduling -- Grid Applications -- Solving a Realistic FAP Using GRASP and Grid Computing -- The Swiss ATLAS Grid -- Grid Based Training Environment for Earth Observation -- Middleware -- Improving Energy-Efficiency of Grid Computing Clusters -- GFS: A Distributed File System with Multi-source Data Access and Replication for Grid Computing -- G2G: A Meta-Grid Framework for the Convergence of P2P and Grids -- Distributed Asynchronous Iterative Algorithms: New Experimentations with the Jace Environment -- Predicting Free Computing Capacities on Individual Machines -- The Deployment and Maintenance of a Condor-Based Campus Grid -- Scheduling -- Bicriteria Service Scheduling with Dynamic Instantiation for Workflow Execution on Grids -- Ant Colony Inspired Microeconomic Based Resource Management in Ad Hoc Grids -- Dynamic Scheduling Algorithm for Heterogeneous Environments with Regular Task Input from Multiple Requests -- Balanced Scheduling Algorithm Considering Availability in Mobile Grid -- Bi-objective Optimization: An Online Algorithm for Job Assignment -- Achieving Co-allocation through Virtualization in Grid Environment -- Load Balancing -- MTS: Multiresolution Thread Selection for Parallel Workload Distribution -- The gLite Workload Management System -- On the Design ofa Performance-Aware Load Balancing Mechanism for P2P Grid Systems -- Pervasive Computing -- A Mediation Framework for the Implementation of Context-Aware Access Control in Pervasive Grid-Based Healthcare Systems -- The Tiny Instrument Element -- ?OR – A Micro OWL DL Reasoner for Ambient Intelligent Devices -- Sensor Networks -- Sensor-Actuator Networks with TBox Snippets -- Prediction Based Mobile Data Aggregation in Wireless Sensor Network -- A Distributed Architecture of Sensing Web for Sharing Open Sensor Nodes -- Peer-to-Peer -- Efficient Parallelized Network Coding for P2P File Sharing Applications -- Scheduling Strategy of P2P Based High Performance Computing Platform Base on Session Time Prediction -- An Activeness-Based Seed Choking Algorithm for Enhancing BitTorrent's Robustness -- Resource Aggregation Effectiveness in Peer-to-Peer Architectures -- Web Services for Deeply Embedded Extra Low-Cost Devices -- A Group-Based Reputation Mechanism for Mobile P2P Networks -- A Partition-Based Broadcast Algorithm over DHT for Large-Scale Computing Infrastructures -- Fault Tolerance -- Novel Crash Recovery Approach for Concurrent Failures in Cluster Federation -- JACEP2P-V2: A Fully Decentralized and Fault Tolerant Environment for Executing Parallel Iterative Asynchronous Applications on Volatile Distributed Architectures -- Performance Evaluation of Scheduling Mechanism with Checkpoint Sharing and Task Duplication in P2P-Based PC Grid Computing -- A Probabilistic Fault-Tolerant Recovery Mechanism for Task and Result Certification of Large-Scale Distributed Applications.

Sommario/riassunto

This book constitutes the refereed proceedings of the 4th International Conference on Grid and Pervasive Computing, GPC 2009, held in Geneva, Switzerland, in May 2009. The 42 revised full papers presented were carefully reviewed and selected from 112 submissions. The papers are organized in topical sections on grid economy, grid security, grid applications, middleware, scheduling, load balancing, pervasive computing, sensor networks, peer-to peer as well as fault tolerance.