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Descrizione fisica	1 online resource (xiv, 426 pages) : illustrations
Disciplina	004.36
Soggetti	Electronic data processing - Distributed processing
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Welcome Message from the General Chair -- A Message from the Program Chair -- Program Committee -- Flexibility, Manageability and Performance in a Grid Storage Appliance -- Distributed Computing with Load-Managed Active Storage -- A Decentralized, Adaptive Replica Location Mechanism -- A Decentralized, Adaptive Replica Location Mechanism -- Adaptive timeout discovery using the Network Weather Service -- Dynamic right-sizing in FTP (drsFTP): Enhancing Grid performance in user-space -- QoS-based resource discovery in intermittently available environments -- Design and evaluation of a resource selection framework for Grid applications -- A scalable QoS-aware service aggregation model for peer-to-peer computing grids -- An enterprise-based grid resource management system -- Interactive and descriptor-based deployment of object-oriented grid applications -- Partitionable services: A framework for seamlessly adapting distributed applications to heterogeneous environments -- Lightweight self-organizing frameworks for metacomputing -- Using kernel couplings to predict parallel application performance -- Using semantic information to guide efficient parallel I/O on clusters -- Multigrain parallelism for eigenvalue computations on networks of clusters -- Backtracking and re-execution in the automatic debugging of parallelized programs -- Dynamic monitoring of high-performance distributed applications -- Leveraging run time knowledge about event rates to improve memory utilization in wide area data stream filtering -- GridMapper: a tool for visualizing the behavior of large-scale

distributed systems -- Predicting sporadic grid data transfers -- Error scope on a computational grid: theory and practice -- Design and implementation of secured information services for the ASCI grid -- Architecture requirements for commercializing Grid resources -- GriPhyN and LIGO, building a virtual data Grid for gravitational wave scientists -- Evaluating Web services based implementations of GridRPC -- Investigating the limits of SOAP performance for scientific computing -- An evaluation of object-based data transfers on high performance networks -- A comparison of TCP automatic tuning techniques for distributed computing -- On the viability of component frameworks for high performance distributed computing: a case study -- Distributed model coupling framework -- Coven-a framework for high performance problem solving environments -- MySRB and SRB - components of a Data Grid -- A high-performance cluster storage server -- A secure distributed search system -- InfoGram: a grid service that supports both information queries and job execution -- A metascheduler for the Grid -- Decoupling computation and data scheduling in distributed data-intensive applications -- Distributed job scheduling on computational Grids using multiple simultaneous requests -- IQ-RUDP: coordinating application adaptation with network transport -- Adaptive online data compression -- Software architecture-based adaptation for Grid computing -- Local discovery of system architecture - application parameter sensitivity: an empirical technique for adaptive grid applications -- The GridLab grid application toolkit -- BioGRID - An European grid for molecular biology -- Grid services in action: grid enabled optimisation and design search -- The performance of processor co-allocation in multicluster systems -- A case for proactivity in directory services -- Grid-based knowledge discovery services for high throughput informatics -- Bringing the grid to the biomedical workbench -- Location-transparent naming in grid computing using Legion-G -- A peer-to-peer approach to resource location in grid environments -- Virtual services in data grids -- A batch script generator Web service for computational portals -- UNICORE-Globus interoperability: getting the best of both worlds -- Scalability of a distributed neural information retrieval system -- Author index.

Sommario/riassunto

Forty-two full papers from the July 2002 conference in Edinburgh discuss data servers and grid storage, adapting to grid behavior, grid resource management, applications frameworks, parallel application analysis optimizing grid performance, grid practice and experience, communication and RPC protocols, grid job submission and scheduling, and adaptive applications and middleware. Thirteen poster papers address similar topics. Only authors appear in the index. Annotation copyrighted by Book News, Inc., Portland, OR.
