

1. Record Nr.	UNINA9910739442203321
Titolo	Grid Computing : Second European AcrossGrids Conference, AxGrids 2004, Nicosia, Cyprus, January 28-30, 2004. Revised Papers // edited by Marios D. Dikaiakos
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2004
ISBN	1-280-30791-9 9786610307913 3-540-28642-X
Edizione	[1st ed. 2004.]
Descrizione fisica	1 online resource (XIII, 275 p.)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 3165
Disciplina	004.36
Soggetti	Computer science Computer networks Software engineering Computer programming Operating systems (Computers) Algorithms Theory of Computation Computer Communication Networks Software Engineering Programming Techniques Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	EU Funded Grid Development in Europe -- Pegasus: Mapping Scientific Workflows onto the Grid -- A Low-Cost Rescheduling Policy for Dependent Tasks on Grid Computing Systems -- An Advanced Architecture for a Commercial Grid Infrastructure -- Managing MPI Applications in Grid Environments -- Flood Forecasting in CrossGrid Project -- MPICH-G2 Implementation of an Interactive Artificial Neural Network Training -- OpenMolGRID, a GRID Based System for Solving

Large-Scale Drug Design Problems -- Integration of Blood Flow Visualization on the Grid: The FlowFish/GVK Approach -- A Migration Framework for Executing Parallel Programs in the Grid -- Implementations of a Service-Oriented Architecture on Top of Jini, JXTA and OGSI -- Dependable Global Computing with JaWS++ -- Connecting Condor Pools into Computational Grids by Jini -- Overview of an Architecture Enabling Grid Based Application Service Provision -- A Grid-Enabled Adaptive Problem Solving Environment -- Workflow Support for Complex Grid Applications: Integrated and Portal Solutions -- Debugging MPI Grid Applications Using Net-dbx -- Towards an UML Based Graphical Representation of Grid Workflow Applications -- Support for User-Defined Metrics in the Online Performance Analysis Tool G-PM -- Software Engineering in the EU CrossGrid Project -- Monitoring Message-Passing Parallel Applications in the Grid with GRM and Mercury Monitor -- Lhcmaster – A System for Storage and Analysis of Data Coming from the ATLAS Simulations -- Using Global Snapshots to Access Data Streams on the Grid -- SCALEA-G: A Unified Monitoring and Performance Analysis System for the Grid -- Application Monitoring in CrossGrid and Other Grid Projects -- Grid Infrastructure Monitoring as Reliable Information Service -- Towards a Protocol for the Attachment of Semantic Descriptions to Grid Services -- Semantic Matching of Grid Resource Descriptions -- Enabling Knowledge Discovery Services on Grids -- A Grid Service Framework for Metadata Management in Self-e-Learning Networks.

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#### Sommario/riassunto

The 2nd European AcrossGrids Conference (AxGrids 2004) aimed to examine the state of the art in research and technology developments in Grid Computing, and provide a forum for the presentation and exchange of views on the latest grid-related research results and future work. The conference was organized by Cross Grid, a European Union-funded project on Grid research, GRIDSTART, the EU-sponsored initiative for consolidating technical advances in grids in - rope, and the University of Cyprus. It continued on from the successful 1st European Across Grids Conference, held in Santiago de Compostela, Spain, in February 2003. AxGrids 2004 was run in conjunction with the 2nd IST Conc- tation Meeting on Grid Research, which brought together representatives from all EU-funded projects on Grid research for an exchange of experiences and ideas regarding recent developments in European grid research. The conference was hosted in Nicosia, the capital of Cyprus, and attracted- thors and attendees from all over Europe, the USA, and East Asia. The Program Committee of the conference consisted of 37 people from both academia and - dustry, and there were 13 external reviewers. Overall, AxGrids 2004 attracted 57 paper submissions (42 full papers and 15 short posters). Papers underwent a thorough review by several Program Committee members and external - viewers. After the review, the Program Chair decided to accept 26 papers (out of 42) for regular presentations, 8 papers for short presentations, and 13 - pers for poster presentations. Accepted papers underwent a second review for inclusion this postproceedings volume, published as part of Springer's Lecture Notes in Computer Science series.

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