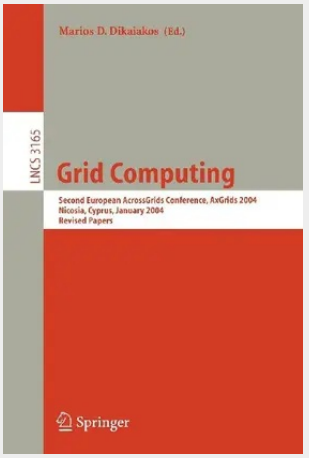
Dikaiakos

Grid Computing

Second European AcrossGrids Conference, AxGrids 2004, Nicosia, Cyprus, January 28-30, 2004. Revised Papers



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The 2nd European AcrossGrids Conference (AxGrids 2004) aimed to examine the state ofthe artinresearchandtechnologydevelopmentsinGridComputing, 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 CrossGrid, 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 allEU-funded projectsonGridresearchforanexchangeofexperiencesandideas regarding recent developments in European grid research. TheconferencewashostedinNicosia,thecapitalofCyprus,andattracted- thorsandattendeesfromalloverEurope,theUSA,andEastAsia. TheProgram 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.

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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