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Disciplina	004/.36
Soggetti	Architecture, Computer Computer communication systems Computer programming Software engineering Operating systems (Computers) Algorithms Computer System Implementation Computer Communication Networks Programming Techniques Software Engineering Operating Systems Algorithm Analysis and Problem Complexity
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Experiences on Grid Resource Selection Considering Resource Proximity -- Decentralized vs. Centralized Economic Coordination of Resource Allocation in Grids -- The EU-CrossGrid Approach for Grid Application Scheduling -- Job Scheduling and Resource Management Techniques in Economic Grid Environments -- VOMS, an Authorization System for

Virtual Organizations -- A Grid Framework for Optimistic Resource Sharing -- Search Engines for the Grid: A Research Agenda -- Design and Implementation of a Grid-Enabled Component Container for CORBA Lightweight Components -- First Prototype of the CrossGrid Testbed -- An Advanced Security Infrastructure for Heterogeneous Relational Grid Data Sources -- High-Performance GRID Stream Database Manager for Scientific Data -- Optimization of Data Access for Grid Environment -- ATLAS Data Challenges in GRID Environment on CYFRONET Cluster -- MAPFS-Grid: A Flexible Architecture for Data-Intensive Grid Applications -- RAID-1 and Data Stripping across the GRID -- A Parallel I/O Middleware to Integrate Heterogeneous Storage Resources on Grids -- Mobile Work Environment for Grid Users -- Grid-Enabled Visualization with GVK -- Grid Services for HLA-Based Distributed Simulation Frameworks -- A Grid-Enabled Air Quality Simulation -- GRID Oriented Implementation of Self-organizing Maps for Data Mining in Meteorology -- Grid Computing in Structure Determination of Biological Specimens by Electron Microscope Tomography -- A Grid Representation for Distributed Virtual Environments -- Interactive Distributed Data Access in a GRID Environment -- Dynamic Grid Catalog Information Service -- Network Performance Measurements as Part of Feasibility Studies on Moving an ATLAS Event Filter to Off-Site Institutes -- A Flexible Multi-level Grid Monitoring Architecture -- Automatic Services Discovery, Monitoring and Visualization of Grid Environments: The MapCenter Approach -- Monitoring Grid Applications with Grid-Enabled OMIS Monitor -- The G-PM Tool for Grid-Oriented Performance Analysis -- Jiro Based Grid Infrastructure Monitoring System -- State of Development Report -- Performance Prediction in a Grid Environment -- ULabGrid, an Infrastructure to Develop Distant Laboratories for Undergrad Students over a Grid -- Wireless Java-Enabled MIDP Devices as Peers in a Grid Infrastructure -- TCP Behavior on Transatlantic Lambda's -- Grid Characteristics and Uses: A Grid Definition -- An Overview of European Grid Projects -- The CrossGrid Architecture: Applications, Tools, and Grid Services -- Comparison of Grid Middleware in European Grid Projects.

Sommario/riassunto

On behalf of the Program Committee, it is a pleasure for us to introduce the proceedings of the 1st European Across Grids Conference. This event was held in Santiago de Compostela, Spain, February 13–14, 2003. The conference, organized by the University of Santiago (USC), the University of A Coruna (UDC) and the Super computing Center of Galicia (CESGA), was promoted by the European Cross Grid project and supported by the Grid Start Cluster. The idea of organizing this event was born within the Cross Grid community. Cross Grid is developing its middleware, tools and applications in collaboration with Data Grid and Grid Lab and is open to collaboration with other Grid projects. USC, UDC and CESGA enthusiastically supported the conference idea. We consider the Across Grids Conference to be an important contribution to the objectives of the Grid Start project. The aim of this 1st European Across Grids Conference was to forge annual forum in which researchers linked to European projects could present their research results in the field of Grid computing. This conference does not tend to replace the Global Grid Forum. However, we do find that research being conducted within European projects deserves a special meeting in which all researchers participating in the Grid development challenge can exchange ideas, experiences and, chiefly, results. We would like the effort of organizing this forum to find continuity in the following years in other European cities. Our first interest was to bring together as many European Grid projects as possible. We believe we have been successful in attaining

this aim. Papers and posters from Data Grid, Cross Grid, Damien, Data TAG, Grid Way and Grid Lab were presented, as well as results of research funded by national Grid projects, including NORDUGRID and several Spanish Grid initiatives, such as Rede Grid.
