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                            Computer networks
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   Nota di contenuto   Data-Based Applications -- to OGSA-DAI Services -- Using OGSA-DQP to Support Scientific Applications for the Grid -- Mobile Agent-Based Service Provision in Distributed Data Archives -- A Proxy Service for the xrootd Data Server -- A Flexible Two-Level I/O Architecture for Grids -- Data Driven Infrastructure and Policy Selection to Enhance Scientific Applications in Grid -- BioApplications -- Modelling a Protein Structure Comparison Application on the Grid Using PROTEUS -- Grid Services

Complemented by Domain Ontology Supporting Biomedical Community -- Applications Architecture, Frameworks and Models -- A Generic Architecture for Sensor Data Integration with the Grid -- Embarrassingly Distributed and Master-Worker Paradigms on the Grid -- A Framework for the Design and Reuse of Grid Workflows -- Towards Peer-to-Peer Access Grid -- A Service Oriented Architecture for Integration of Fault Diagnostics -- GAM: A Grid Awareness Model for Grid Environments -- Accounting and Market-Based Architecture -- Grid Accounting Service Infrastructure for Service-Oriented Grid Computing Systems -- Mercatus: A Toolkit for the Simulation of Market-Based Resource Allocation Protocols in Grids -- Resource and Information Management in Grid -- A Resource Monitoring and Management Middleware Infrastructure for Semantic Resource Grid -- A Service-Oriented Framework for Traffic Information Grid.

| Sommario/riassunto | We wish to extend a warm welcome to the reader of this extended postp- ceedings publication of SAG 2004, the 1st International Workshop on Scienti?c Applications on Grid Computing. This workshop was held in September 2004, in conjunction with the 2004 IEEE/WIC/ACM International Joint Conference on Web Intelligence (WI 2004) and Intelligent Agent Technology (IAT 2004). The WI and IAT conferences have provided, for several years, a leading - ternational forum to bring together researchers and practitioners from diverse ? elds,suchascomputerscience,informationtechnology,business, education,- man factors, systems engineering, and robotics, to explore the fundamental roles as well as practical impacts of arti?cial intelligence (AI) (e.g., knowledge r- resentation, planning, knowledge discovery, and data mining, intelligent agents and social network intelligence) and advanced information technology (IT) (e.g., wireless networks, ubiquitous devices, social networks, the Wisdom Web, and data/knowledge grids), and to examine the design principles and performance characteristics of various approaches in intelligent agent technology. |