



European Conference on Parallel Computing

Topic 6: Grid and Cluster Computing: Models, Middleware and Architectures

Description

Grid computing is a major research area with strong involvement from both academia and the computing industry. The common vision is that grid computing represents the culmination of truly general distributed computing across various resources in a ubiquitous, open-ended infrastructure to support a wide range of different application areas. Although significant progress has been made in the design and deployment of grids, many challenges still remain before the goal of a user-friendly, efficient, and reliable grid can be realized. Grid research issues cover many areas of computer science to address the fundamental capabilities and services that are required in a heterogeneous environment, such as adaptability, scalability, reliability and security, and to support applications as diverse as ubiquitous local services, enterprise-scale virtual organizations, and internet-scale distributed supercomputing. Therefore, grid research will greatly benefit from interactions with the many related areas of computer science, making Euro-Par an excellent venue to present results and discuss issues.

Focus

- Grid middleware
- Resource/Service/Information discovery
- Resource management and scheduling
- Grid programming models, tools, and algorithms
- Dependability, adaptability, and scalability
- Security for grids
- Monitoring and event notification for grids
- Workflow management
- Grid accounting and economics
- Innovative Applications for Grid and Cluster Computers

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