



The International Workshop on Grid Computing (WGC'08) at ARES-2008

<http://www.ares-conference.eu>

March 4th – 7th, 2008

Polytechnic University of Catalonia, Barcelona, Spain

The Workshop

In the last years, research in the field of Grid Computing has been growing very rapidly and many new technologies have been proposed. This, along with the growing popularity of web-based technologies, and the availability of cheap commodity components is changing the way of conducting computing and business. Grid computing allows the federation of computational and storage resources to solve problems in science, engineering, medicine, finance, and entertainment. Integration of multi-core platforms and wireless communications in the traditional grids comprised of clusters, workstations, and supercomputers pose new challenges to manage the grids and open new opportunities in using them.

This workshop aims to provide a forum for presenting research results on most aspects of grid computing, with a focus on the following areas: (1) applications, (2) benchmarking, (3) infrastructure, (4) management, and (5) scheduling, partitioning and load balancing.

Topics of interest include, but are not limited to:

- Theory and practice of composing secure grid applications
- Evaluating performance of grid hardware and middleware and the performance impact of security mechanisms
- Implementation and evaluation of grid middleware (with a focus on security requirements)
- Management, monitoring, and organization
- Partitioning applications for computational grids
- Grid security issues
- Grid economy
- Scientific, industrial, and social implications
- Resource management and scheduling
- Grid information services
- Secure methods for remote execution
- Internet-based computing models
- Secure grid architectures
- Grid toolkits and their security functions

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