

## Topic 6

# Grid and Cluster Computing

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### Topic Chairs

With some years of research and development Grid computing is starting to be a mature subject with relevant methodologies, software and tools available both for the academia and industry. 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. However, there is still many areas in which further research is required to achieve a user-friendly, efficient, secure and reliable grid.

For this edition of the EuroPar conference, the Grid topic called for papers that present research and results in the areas of: 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, Desktop Grids, and Automated management of resources and applications.

The topic received a large amount of papers (48) from which 11 were selected for the program of the conference following a high quality review process where all received at least 3 reviews. From these lines, we would like to thank all the reviewers that helped in this review process.

The selected papers feature topics from the areas of workflows, desktop grids, fault-tolerance, grid scheduling, symbolic computation, characterization of groups of jobs, simple and efficient execution of distributed applications, decision making in cross-grid environments, resource ranking, and P2P Data-dissemination techniques.

The chairs of the topic invite you to read and enjoy this collection of papers.