A Message from the Program Chair

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Welcome to the 7th IEEE/ACM International Conference on Grid Computing, Grid 2006. After five years as a workshop associated with the SC conference series, we have returned to our roots as a free-standing conference. And we are delighted to be in the beautiful city of Barcelona.

The program for this conference covers all areas of Grid computing research. Papers were solicited that addressed a wide range of topics including

• Internet-based Computing Models
• Applications, including eScience and eBusiness Applications
• Distributed and Large-Scale Data Access and Management
• Middleware and Toolkits
• Monitoring, Management and Organization Tools
• Resource Management and Scheduling
• Networking
• Virtual Instrumentation
• Metadata, Ontologies, and Provenance
• Creation and Management of Virtual Enterprises and Organizations
• Architectures and Fabrics
• Information Services
• Security Issues
• Programming Models, Tools, and Environments
• Grid Economy
• Autonomic and Utility Computing on Global Grids
• Performance Evaluation and Modeling
• Cluster and Grid Integration Issues
• Scientific, Industrial and Social Implications

Over 200 abstracts were received and, from this set we received 188 full papers. It is significant to note that Grid computing is truly international. We had papers from Algeria, Australia, Austria Belgium, Brazil, Canada, China, Cyprus, Czech Republic, Finland, France, Germany, Hungary, India, Iran, Ireland, Italy, Japan, Korea, the Netherlands, Portugal, Russia, Singapore, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, the United Kingdom and the United States

To evaluate these papers I was fortunate enough to recruit five world-class program vice-chairs. Beth Plale, from Indiana University was the vice-chair for the Data Management and Analysis area, Satoshi Matsuoka, from the Tokyo Institute of Technology was the vice-chair for Applications, Olle Mulmo, from the Center for Parallel Computers, KTH Sweden handled the areas of Security, Networking and Infrastructure, Ian Taylor, Cardiff University took the role of vice-chair for Tools and Middleware and Jarek Nabrzyski from the Poznan Supercomputing Center, Poland was vice-chair for Scheduling and Resource Management. I could not have done this job without their help. And they could not have done their job without the aid of a truly outstanding program committee (listed on the next page). Together, the program chairs and the committee wrote over 700 paper reviews. Based on those reviews, we selected 38 papers for presentation and publication in these proceedings. This represents only 18% of the initial abstracts and 20% of the full papers. We had many excellent papers that could not be included because our conference is only 2 days long. However, we did select another 16 papers to be included in a poster session and the abstracts for those papers are included here.

In addition to the research papers, the program includes two keynote speakers and a panel on the intersection of Grid Standards and Grid Research, let by Mark Linesch of the Open Grid Forum, the new organization that represents the merger of the Global Grid Forum and the Enterprise Grid Alliance.

Barcelona is famous for many things, but it stands out as a world pioneer in Architecture. The most well known Barcelona architect was Antoni Gaudi, who was born in 1852. His work is visible throughout this great city and it is characterized by it soaring, yet organic forms. Grid computing is another form of architecture. It fuses computation and information to create infrastructure that can help us solve problems, collaborate and be more creative. It also has a fundamental organic form because a Grid must be dynamic and adaptive so that it can provide a stable, persistent platform for our applications. Like Gaudi’s still unfinished Sagrada Familia, the Grid research presented here is a foundation we will build upon for many years.

We hope you enjoy the conference, learn a lot and take some extra days to explore Barcelona.