

Preface

The growth of the Internet and the availability of powerful computers and high-speed networks as low-cost commodity components are changing the way we do computing. These new technologies have enabled the clustering of a wide variety of geographically distributed resources, such as supercomputers, storage systems, data sources, and special devices and services, which can then be used as a unified resource. Furthermore, they have enabled seamless access to and interaction among these distributed resources, services, applications, and data. The new paradigm that has evolved is popularly termed “Grid computing”. Grid computing and the utilization of the global Grid infrastructure have presented significant challenges at all levels, including application development, programming models, systems, infrastructures and services, networking, and security, and have led to the development of a global research community.

Grid 2002 is the third in a series of workshops developed to provide a forum for this growing Grid Computing research community. Grid 2000, the first workshop in the series, was chaired by Rajkumar Buyya and Mark Baker, and was held in conjunction with HiPC 2002 in Bangalore, India. Grid 2001 (Chair: Craig A. Lee) and Grid 2002 were held in conjunction with Supercomputing, the world’s premier meeting for high-performance computing.

The Grid 2002 program committee consisted of a truly international group of experts representing 13 countries on 4 continents. Grid 2002 attracted 78 research papers. Each paper was thoroughly reviewed by the program committee and external reviewers, and 22 full papers and 6 “work-in-progress” papers were selected and presented at the workshop. We sincerely thank the program committee for the wonderful job they have done, the reviewers for their time and efforts, and specially the authors for their excellent submissions. It is because of you that the workshop was a success.

We also thank our sponsors, the ACM, the IEEE, the IEEE Computer Society, and Supercomputing 2002 for making the workshop and these proceedings possible. The WIMPE conference management software from Dartmouth College and system support at the CAIP Center at Rutgers University proved invaluable during the paper submission and review process. We also thank Jan van Leeuwen, Utrecht University (LNCS Series Editor) and Alfred Hofmann of Springer-Verlag (Executive Editor) for publishing the proceedings. Special thanks go to Anna Kramer of Springer-Verlag (Computer Science Editorial Assistant) and Sumir Chandra for helping perfect these proceedings. Finally, we wish to thank each one of you who attended Grid 2002 in Baltimore, MD. We do hope you find these proceedings interesting and informative.

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Grid Computing - GRID 2002

Third International Workshop, Baltimore, MD, USA,

November 18, 2002, Proceedings

Parashar, M. (Ed.)

2002, XI, 321 p., Softcover

ISBN: 978-3-540-00133-1