FINAL CALL FOR PAPERS 2004 IEEE International Conference on Cluster Computing

http://grail.sdsc.edu/cluster2004/



TFCC

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20-23 SEPTEMBER 2004

In less than a decade, commodity clusters have become mainstream and cost-effective computing platforms for executing a wide range of computation-, data-, and transaction-oriented parallel applications. In spite of countless deployed platforms and resounding application successes, many research and development challenges remain for achieving higher performance, scalability, and usability. The IEEE TFCC Cluster2004 conference, to be held in beautiful San Diego, provides an open forum for researchers, practitioners, and users to present and discuss issues, directions, and results that will shape the future of cluster computing.

Cluster2004 welcomes paper and poster submissions from engineers and scientists in academia and industry describing original research work in all areas of cluster computing. In addition, Cluster2004 will welcome proposals for tutorials and workshops to be held concurrently with the conference. Topics of interest include, but are not limited to:

Cluster Middleware

- · Single-System Image Services
- · Software Environments and Tools
- · Standard Software for Clusters
- · I/O Libraries, File Systems, and Distributed RAID

Cluster Networking

- · High-Speed System Interconnects
- · Lightweight Communication Protocols
- · Fast Message Passing Libraries

Cluster Management and Maintenance

- · Cluster Security and Reliability
- · Tools for Managing Clusters
- · Cluster Job and Resource Management
- High-Availability Cluster Solutions

Applications

- · Scientific and E-Commerce Applications
- Data Distribution and Load Balancing
- · Scheduling and Parallel Algorithms
- · Innovative Cluster Applications
- · Tools and Environnments

Performance Prediction and Modeling

- Performance Analysis and Evaluation Benchmarking and Profiling Tools

 - Analysis and Visualization

Grid Computing and Clusters

- · Grid / Clusters Integration
- · Network-Based Distributed Computing
- · Mobile Agents and Java for Clusters/Grids

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PAPER SUBMISSION

Paper Format: Not to exceed 25 double-spaced, numbered pages (including title, author affiliations, abstract, keywords, figures, tables and bibliographical references) using 12 point font on 8.5x11-inch pages with 1-inch margins all around.

Submission: An on-line submission page will be activated on the conference web site two weeks before the submission deadline. Authors should submit a PostScript (level 2) or PDF file. Hard copy submissions will not be accepted.

JOURNAL SPECIAL ISSUE

Authors of the best papers from the conference will be invited to submit an expanded version of their papers for possible publication in a special issue of the International Journal of High Performance Computing and Networking (IJHPCN), which will appear in 2005.

IMPORTANT DATES

Workshop Proposals Due: March 6, 2004 April 16, 2004 Paper Submissions Due: Tutorial Proposals Due: May 14, 2004 Paper Acceptance Notification: June 8, 2004 **Exhibition Proposal Due:** June 18, 2004 Final Paper Manuscripts Due: July 2, 2004

Pre-Conference Tutorials: Conference:

September 20, 2004 September 21-22-23, 2004