



CLUSTER 2003

IEEE INTERNATIONAL CONFERENCE ON CLUSTER COMPUTING

www.csis.hku.hk/cluster2003

1-4 DECEMBER 2003

SHERATON HONG KONG HOTEL & TOWERS, HONG KONG

CALL FOR PAPERS



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Clusters today are an important element of mainstream computing. In less than a decade, the "lowly" computer clusters have come to prominence as the most convenient and cost-effective tool for solving many complex computational problems. Being able to bring enough computing cycles together in a pool is one thing, but to be able to use these cycles efficiently so that the aggregate power of a cluster can be fully harnessed is another. Research and development efforts continue to explore better strategies to make clusters an even greater tool when facing the grandest challenges of this age. Cluster 2003, to be held in the most dynamic city in the Orient, will provide an open forum for cluster researchers and system builders, as well as cluster users, to present and discuss new directions and results that could shape the future of cluster computing.

Cluster 2003 welcomes paper submissions from engineers and scientists in academia, industry, and government describing their latest research findings in any aspects of cluster computing. 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

Managing Clusters

- 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
- Innovative Cluster Applications

Performance Analysis and Evaluation

- Benchmarking and Profiling Tools
- Performance Prediction and Modeling
- Analysis and Visualization

Grid Computing and Clusters

- Grid Applications Integration
- Network-Based Distributed Computing
- Mobile Agents and Java for Clusters/Grids
- Middleware, Tools and Environments

PAPER SUBMISSION

Paper Format:

Not to exceed 25 double-spaced pages (including figures, tables and references) using 10-12 point font on 8.5x11 inch pages. Show page number at each page. Include an abstract, five to ten keywords, and the corresponding author's e-mail address.

Electronic Submission:

Web-based submissions are strongly encouraged. The URL will be announced two weeks before the submission deadline at the conference web site. Authors should submit a PostScript (level 2) or PDF file. Postal submissions are not 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 2004.

IMPORTANT DATES

Papers Submission Deadline:

June 23, 2003

Tutorial Proposals Due:

June 30, 2003

Author Notification:

August 15, 2003

Exhibition Proposal Due:

August 31, 2003

Final Manuscript Due:

September 15, 2003

Pre-Conference Tutorials:

December 1, 2003

Conference:

December 2-4, 2003