CALL FOR PAPERS

Sixteenth Annual ACM Symposium on PARALLELISM IN ALGORITHMS AND ARCHITECTURES (SPAA)

June 27 – 30, 2004, Barcelona, Spain

`http://www.spaa-conference.org`

SCOPE: Contributed papers are sought in *all* areas of parallel algorithms and architectures. SPAA defines the term "parallel" broadly, encompassing any computational system that can perform multiple operations or tasks simultaneously. Thus, the call for papers covers both traditional parallel and distributed algorithms and architectures, as well as the Internet, the web, sensor networks, quantum and DNA computing, etc. Topics of interest include, but are not limited to:

Parallel Computing

- Parallel Algorithms
- Parallel Complexity Theory
- Parallel Computing and Applications
- Models for Parallel and Distributed Computing
- Instruction Level Parallelism and VLSI
- Routing and Information Dissemination
- Parallel Data Structures
- Compilers and Tools for Parallel Computation
- Memory-Aware Algorithms
- Supercomputer Architecture and Computing

Massive Parallelism

- Cluster Computing and Grid Computing
- Mobile and Wireless Computing
- The Internet and the World Wide Web
- Sensor Networks
- Satellite and Radio Networks
- Other Large Networks
- Pricing and Equilibria in Networks
- Quantum and DNA Computing
- Parallel Data Bases and Data Mining
- Metacomputing

CONFERENCE PRESENTATION: *Regular presentations* will be alloted a 25-minute talk and up to 10 pages in the proceedings. This format is intended for contributions reporting original research, submitted exclusively to this conference. Presentation at the *SPAA Revue* will be alloted a 10-minute talk and up to 2 pages in the proceedings. This format is a forum for brief communications, which may be published later in other conferences.

SUBMISSIONS: Authors of contributed papers are encouraged to submit their manuscript electronically. To submit electronically, visit `http://sigact.cs.unlv.edu/~spaa2004/SPAA2004.html` for instructions. *This is the preferred method of submission.* Authors unable to submit electronically should contact the program chair Micah Adler at `micah@cs.umass.edu` to receive instructions.

The cover page should include (1) title, (2) authors and affiliation, (3) postal and email address of the contact author, (4) a brief abstract describing the content of the paper, and (5) an indication if this is a regular presentation or a SPAA Revue presentation. If requested by the authors, an extended abstract that is not selected for a regular presentation will also be considered for the SPAA Revue. Such a request will not affect the consideration of the paper for a regular presentation.

Submissions for *regular presentations* should include an introduction understandable to a nonspecialist including motivation and previous work, and a technical exposition directed to a specialist. It should not exceed 10 printed pages in 11-point type or larger (excluding cover, figures, and references). More details may be supplied in a clearly marked appendix to be read at the discretion of the program committee. A camera-ready copy of each accepted paper must be prepared according to ACM guidelines for inclusion in the conference proceedings.

A submission for the *SPAA Revue* should consist of a 2-page abstract for each proposed presentation. A camera-ready copy of each accepted abstract will have to be prepared according to ACM guidelines for inclusion in the proceedings of the conference.

IMPORTANT DATES: Submission deadline: **February 6, 2004, 5 p.m. EST (10 pm GMT)**. Notification: **March 15, 2004**. Camera-ready copy due: **April 6, 2004**.

PROGRAM COMMITTEE:

Micah Adler (*U. Mass., Amherst*)	John Byers (*Boston U.*)	Tom Cormen (*Dartmouth*)
Bruce Hendrickson (*Sandia Natl Labs*)	Maurice Herlihy (*Brown U.*)	Christos Kaklamanis (*U. Patras*)
Christian Lengauer (*U. Passau*)	Geppino Pucci (*U. Padova*)	Satish Rao (*U.C. Berkeley*)
Yves Robert (*ENS Lyon*)	Peter Sanders (*MPI Saarbrücken*)	Daniel Sorin (*Duke U.*)
Aravind Srinivasan (*U. Maryland*)	Berthold Vöcking (*U. Dortmund*)	

CONFERENCE ORGANIZATION:

Conference Chair: Phil Gibbons, *Intel Research*	**Program Chair:** Micah Adler, *U. Mass., Amherst*
Local Arrangements: Lali Barrière, *U. Catalunya*	**Treasurer:** Rajmohan Rajaraman, *Northeastern U.*
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