Call for Papers

Twenty-third Annual ACM SIGACT-SIGOPS Symposium on PRINCIPLES OF DISTRIBUTED COMPUTING (PODC)

25-28 July 2004, St. John's, Newfoundland, Canada

http://www.podc.org/podc2004/

PODC 2004 is colocated with the ***Workshop on Concurrency and Synchronization in Java Programs***; joint submission is encouraged.

Important dates:

Submission deadline	**February 15, 2004**
Acceptance notification	**May 9, 2004**
Camera-ready copy due	**May 29, 2004**

Program Committee:

James Aspnes	*Yale*
Gregory Chockler	*MIT*
Edith Cohen	*ATT Labs*
Panagiota Fatourou	*U. Ioannina*
Joan Feigenbaum	*Yale*
Christof Fetzer	*ATT Labs*
Jaap-Henk Hoepman	*U. Nijmegen*
David Karger	*MIT*
Idit Keidar	*Technion*
Shay Kutten, *Chair*	*Technion*
Victor Luchangco	*Sun Labs*
Keith Marzullo	*UCSD*
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Gadi Taubenfeld	*IDC*
Mark Tuttle	*HP Labs*
Roger Wattenhofer	*ETHZ*

Conference Committee:

Marcos Aguilera	*HP Labs*
Soma Chaudhuri	*Iowa State*
Panagiota Fatourou	*U. Ioannina*
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Victor Luchangco	*Sun Labs*
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Gil Neiger	*Intel Labs*
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Steering Committee:

Marcos Aguilera	*HP Labs*
Soma Chaudhuri	*Iowa State*
Idit Keidar	*Technion*
Shay Kutten	*Technion*
Keith Marzullo	*UCSD*
Sergio Rajsbaum	*UNAM*
Mark Tuttle, *Chair*	*HP Labs*

How to submit:

Electronic submissions are strongly encouraged; information on how to submit electronically will be available at

http://www.podc.org/podc2004/cfp.html.

Authors unable to submit electronically should contact the program chair, Shay Kutten (kutten@ie.technion.ac.il), to receive instructions.

Rev 1.0, November 18, 2003

SCOPE: PODC continues to broaden the conference, and solicits papers on all areas of distributed systems. We encourage submissions dealing with any aspect of distributed computing, including theory and practice, systems, design, specification, verification, implementation, application, and properties of distributed systems. The common goal is to shed light on the principles of distributed computing. This year, we have a special track to emphasize the area of ***Algorithms and Data Structures for the Internet***.

Topics of interest include, but are not limited to, the following subjects in distributed systems:

- Internet algorithms and data structures
- Distributed computing issues in the Internet and the Web
- Distributed algorithms, correctness, complexity, application
- Synchronization: hardware, software, algorithms, architecture, practice
- Cryptographic and security protocols, security of distributed systems
- Distributed middleware platforms, operating systems, databases
- Mobile computing, ad hoc and sensor networks
- P2P computing, overlay networks
- High-performance distributed computing and the computational grid
- Multiprocessor/cluster architectures, algorithms, experience
- Agents' cooperation, mobile agents
- Location-aware distributed computing, distributed robots' cooperation
- Networking: architecture, design, control, services, applications
- Communication network protocols
- Transport and application layer protocols, routing, scheduling, resource allocation
- Shared memory
- Algorithmic mechanism design
- Fault tolerance, availability, self stabilization
- Specification, semantics, and verification
- Distributed data management and search

CONFERENCE PRESENTATIONS will have three formats: ***Regular presentations***, accompanied by papers of up to 10 pages in the proceedings, are intended for contributions reporting on original research, submitted exclusively to this conference (or jointly to this conference and to the *Workshop on Concurrency and Synchronization in Java Programs*). ***Brief announcements***, accompanied by one-page abstracts in the proceedings, are encouraged as an opportunity for conference participants to be exposed to work in progress or published in other conferences. ***Posters and demonstrations*** include graphic material and demo prepared by authors for exhibitions.

SUBMISSIONS FORMAT: All electronic submissions must be in Postscript or PDF format. On the cover page, include (1) contact person's name, phone, fax, email and complete postal mail address, (2) title of paper, (3) names and affliations of all authors, (4) a brief abstract, (5) keywords, and (6) the number of pages. Also, indicate in boldface below the brief abstract whether the paper is also submitted to the *Workshop on Concurrency and Synchronization in Java Programs*, whether any author is a member of the program committee, and, for a regular presentation, whether it is eligible for the best student paper award (see details below), and whether it should be considered a brief announcement (if not accepted as a regular presentation).

A submission for ***regular presentation*** must be no longer than 10 pages on letter-size paper using at least 11-point font (4,500 words). Additional *necessary* details may be included in a clearly marked appendix, which will be read at the discretion of the program committee. A submission for ***brief announcement*** must be no longer than 3 pages on letter-size paper using at least 11-point font. If requested by the authors, a submission that is not selected for regular presentation will also be considered for the brief announcement format. Such a request will *not* affect consideration of the paper for regular presentation. More details about submissions for ***posters and demonstrations*** will appear on the PODC web site.

BEST STUDENT PAPER AWARD: A prize will be given to the best student paper. A paper is eligible if at least one author is a full-time student at the time of submission, and the contribution of the student is significant. This must be noted on the cover page. The program committee may decline to make the award or split it.