



17th ACM Symposium on Operating Systems Principles



December 12-15, 1999

Kiawah Island Resort, near Charleston SC

<http://www.diku.dk/sosp99/>

<http://www.cs.dartmouth.edu/SOSP99/>

General chair: David Kotz, *Dartmouth College*

Program chair: John Wilkes, *Hewlett-Packard Laboratories*

Sponsored by: ACM SIGOPS

Authors are invited to submit papers to the 17th SOSP describing original research related to the design, implementation, analysis, and deployment of operating systems. We seek a broad set of high quality, relevant, interesting papers. We are soliciting submissions on a wide range of topics including resource management, security, application support, I/O, networking, user interface support, and OS-related issues for the world-wide web. Our scope spans a wide range of platforms and environments: embedded systems, mobile computers, PCs, workstations, servers, high-performance machines, and production environments — especially heterogeneous ones.

The SOSP traditions will continue: we will favor work that advances the state of the art into new territory, or continues a significant research dialogue, or reflects on practical applications of the community's knowledge. We are looking for reports on newly-completed work, experience studies, and constructive critiques of prior work, as well as more speculative studies of fresh opportunities.

We anticipate that many contributions will emphasize the OS community's contribution to the closely related fields of computer architecture, data communications, programming systems and languages, and applications. The Symposium attracts attendees with diverse backgrounds, and we explicitly solicit papers not only in the "traditional core" of the OS field, but also in the interface to these areas and others. Topics of interest include, but are not restricted to:

- OS structure and organization
- OS performance evaluation
- File and storage systems
- I/O architectures
- Low-power systems
- Parallel systems
- Heterogeneous systems
- Distributed systems
- Real-time systems
- High-performance systems
- High-availability systems
- Security
- Processor architecture / OS interactions
- Networks and communications
- Mobile computing
- Ubiquitous computing
- Multimedia support
- Database and transaction support
- World-wide web support
- Commercial deployment experience

A poster session will provide an outlet for papers of unusual novelty, and we hope to see some more speculative contributions in this category. The tradition of a work-in-progress session will be continued.

Important dates

Deadline for receipt of submissions:	May 17, 1999
Absolute, final, real deadline for receipt of submissions:	May 24, 1999 (23:59 PDT)
Acceptance notification:	Aug 20, 1999
Deadline for camera-ready final papers:	Sep 24, 1999

To submit a paper

Submission will be done electronically through the web site <<http://tesla.hpl.hp.com/sosp99/forms/>>, where details of the submission process will be found.

Submitted papers must use a typeface no smaller than 10 point, preferably in 2 columns, and be no longer than sixteen (16) 8.5"x11" or A4 pages including everything: references, title page, figures, appendices, etc. Substantially identical papers must not have been published elsewhere or be under consideration for publication elsewhere. Authors must **not** be identified in the paper itself, either explicitly or by implication (e.g., through the references or acknowledgments). The Program Chair will do something creative but unpleasant to papers violating these rules, and they will not be further considered.

Blind reviewing of **full** papers will be done by the program committee, assisted by outside referees. Papers will be provisionally accepted subject to revision and approval by a program committee member acting as a shepherd. On acceptance, authors will be encouraged to supply an electronic version for internet access and the conference CD-ROM and will be required to sign an ACM copyright release form. Your submission indicates that you agree to this. Papers will be held in full confidence during the reviewing process.

Questions may be addressed to the Program Chair:

John Wilkes <wilkes@hpl.hp.com>
Hewlett-Packard Laboratories, mailstop 1U13
1501 Page Mill Road
Palo Alto, CA 94304-1126, USA.
Tel: +1 (650) 857-3568

Additional information

Program committee

- Jean Bacon, *Cambridge University*
- David Black, *EMC Corporation*
- Eric Brewer, *University of California, Berkeley*
- Peter Chen, *University of Michigan*
- Peter Lee, *Carnegie Mellon University*
- Jay Lepreau, *University of Utah*
- Barbara Liskov, *Massachusetts Institute of Technology*
- Jeff Mogul, *Compaq Western Research Laboratory*
- Mendel Rosenblum, *Stanford University*
- Fred Schneider, *Cornell University*
- Jack Stankovic, *University of Virginia*
- Chandu Thekkath, *Compaq Systems Research Center*
- John Wilkes, *Hewlett-Packard Laboratories (program chair)*

Conference committee

Treasurer: Cary Gray, *Abilene Christian University*
Local arrangements: Ann Chervenak, *Georgia Institute of Technology*
Volunteers: Jeff Chase, *Duke University*
Registration: Pei Cao, *University of Wisconsin*
Publicity: Eric Jul, *DIKU, University of Copenhagen*
Scribes: Jay Lepreau, *University of Utah*
Scholarships: Guerney Hunt, *IBM*, and Nina Bhatti, *HP Laboratories*
CDROM and Publications: TBD

Papers will be published in the Symposium Proceedings, which is distributed at the Symposium and as an issue of *Operating Systems Review*, the ACM SIGOPS quarterly. A CD-ROM of papers and related material will also be published. We will encourage authors of accepted papers to make source code available to ensure replicable results and to facilitate further research by the community. Papers of particular merit will be forwarded to *ACM Transactions on Computer Systems* for consideration for publication in a special issue with a rapid-review cycle.

There will be a scholarship program to support student registration and attendance.