

# 2005 USENIX Annual Technical Conference: General Session Refereed Papers Track

Sponsored by USENIX, The Advanced Computing Systems Association

<http://www.usenix.org/usenix05>

April 10–15, 2005

Anaheim, California, USA

## Important Dates

Submissions due: *Friday, October 22, 2004*  
(firm, no extensions)

Notification to authors: *December 7, 2004*

Camera-ready papers due: *February 17, 2005*

## Program Committee

### Program Chair

Vivek Pai, *Princeton University*

Atul Adya, *Microsoft Research*

David Andersen, *Massachusetts Institute of Technology*

Andrea Arpaci-Dusseau, *University of Wisconsin*

Ludmila Cherkasova, *Hewlett-Packard Labs*

Tzi-cker Chiueh, *SUNY Stony Brook*

Carla Ellis, *Duke University*

Dawson Engler, *Stanford University*

Steven Gribble, *University of Washington*

Erich Nahum, *IBM Research*

Jason Nieh, *Columbia University*

Timothy Roscoe, *Intel Research*

Mema Roussopoulos, *Harvard University*

Michael Stumm, *University of Toronto*

Joe Sventek, *University of Glasgow*

Mustafa Uysal, *Hewlett-Packard Labs*

Hui Zhang, *Carnegie Mellon University*

Yuanyuan Zhou, *University of Illinois at Urbana-Champaign*

## Overview

Please join us at the 2005 USENIX Annual Technical Conference in Anaheim. USENIX has always been the place to present groundbreaking research and cutting-edge practices in a wide variety of technologies and environments and 2005 is no exception.

Join the community of programmers, developers, and systems professionals in sharing solutions and fresh ideas. Earn the respect of your peers: participate by submitting a paper.

USENIX Annual Tech in 2005 will feature:

- ◆ General Session Refereed Papers, discussing original work on topics in modern computing
- ◆ FREENIX/Open Source Refereed Papers, showcasing the latest developments and interesting applications of open source software

- ◆ An extensive Training Program, covering crucial topics and led by highly respected instructors
- ◆ Guru Is In Sessions, where you can ask noted experts your most burning technical questions and get practical solutions
- ◆ Plus BoFs, WiPs, and more!

## Topics

The 2005 USENIX Annual Technical Conference General Session Program Committee seeks original and innovative papers about modern computing systems, emphasizing implementations with measured results. Specific topics of interest include, but are not limited to:

- ◆ Benchmarking
- ◆ Deployment experience
- ◆ Distributed and parallel systems
- ◆ Embedded systems
- ◆ Energy/power management
- ◆ File and storage systems
- ◆ Networking and network services
- ◆ Operating systems
- ◆ Reliability and availability
- ◆ Security, privacy, and trust
- ◆ Self-managing systems
- ◆ Usage studies and workload characterization
- ◆ Virtual machines
- ◆ Web technology
- ◆ Wireless and mobile systems

## Paper Submissions

Authors are required to submit full papers by Friday, October 22, 2004. This is a hard deadline; absolutely no extensions will be given.

All submissions for USENIX '05 will be electronic, in PostScript or PDF format, via a Web form located on the conference Web site. Authors will be notified of receipt of submission via email.

Submitted papers must be no longer than 14 single-spaced pages, including figures, tables, and references, using 10 point font or larger. The first page of the paper should include the paper title and author name(s); reviewing is not blind. Papers longer than 14 pages will not be reviewed.

**New this year** is the extended abstract format. Authors may submit short papers, at most 4 pages long. These will be reviewed, and accepted submissions will be included in the Proceedings and the short papers session. Time will be provided in the program for brief presentations of these papers. We expect that this format will appeal to authors who wish to publicize early ideas, convey results that do not require a full-length paper, or advocate new positions. The program committee may accept some standard submissions as extended abstracts if they feel the submission is interesting but does not meet the criteria of a full-length paper.

Specific questions about submissions may be sent to [usenix05chair@usenix.org](mailto:usenix05chair@usenix.org).

In a good paper, the authors will have:

- ◆ attacked a significant problem
- ◆ devised an interesting and practical solution
- ◆ clearly described what they have and have not implemented
- ◆ demonstrated the benefits of their solution
- ◆ articulated the advances beyond previous work
- ◆ drawn appropriate conclusions

The USENIX Annual Technical Conference, like most conferences and journals, requires that papers not be submitted simultaneously to more than one conference or publication, that submitted papers not be previously published elsewhere, and that accepted papers not be subsequently published elsewhere for a year from the date of acceptance by USENIX. Papers submitted to this conference that are under review elsewhere will not be considered. Papers accompanied by non-disclosure-agreement forms cannot be accepted. All submissions are held in the highest confidentiality prior to publication in the Proceedings, both as a matter of policy and in accord with the U.S. Copyright Act of 1976.

Authors will be notified of paper acceptance or rejection by December 7, 2004. Accepted papers will be shepherded by a program committee member. Final papers must be no longer than 14 pages, formatted in 2 columns, using 10 point Times Roman type on 12 point leading, in a text block of 6.5" by 9".

## Best Paper Awards

Cash prizes will be awarded to the best papers at the conference. Please see [http://www.usenix.org/publications/library/proceedings/best\\_papers.html](http://www.usenix.org/publications/library/proceedings/best_papers.html) for examples of Best Papers from previous years.

## Registration Materials

One author per paper will receive a registration discount of \$200. USENIX will offer a complimentary registration upon request. Complete program and registration information will be available in January 2005 on the conference Web site. The information will be in both HTML and a printable PDF file.

## Work-in-Progress Reports (WiPs)

Would you like to share a provocative opinion, interesting preliminary work, or a cool idea that will provoke discussion? The USENIX technical sessions will include a slot for

Work-in-Progress reports (WiPs). We are particularly interested in presentations of student work. To submit, please send a proposal (one page or less) to [usenix05wips@usenix.org](mailto:usenix05wips@usenix.org). Please let me know if this is acceptable or advise me of any changes.

## Birds-of-a-Feather Sessions (BoFs)

Birds-of-a-Feather sessions (BoFs) are informal gatherings organized by attendees interested in a particular topic. BoFs will be held in the evening. BoFs may be scheduled in advance by emailing [bofs@usenix.org](mailto:bofs@usenix.org). BoFs may also be scheduled at the conference.

## Training Program

USENIX's highly respected training program offers intensive, immediately applicable tutorials on topics essential to the use, development, and administration of advanced computing systems. Skilled instructors, hands-on experts in their topic areas, present both introductory and advanced tutorials covering topics such as (this list is not comprehensive—feel free to propose topics not listed):

- ◆ System administration, maintenance, monitoring, and security:
  - ❖ Systems application configuration and maintenance
  - ❖ High availability and quality of service
  - ❖ Monitoring: SNMP, log analysis, etc.
  - ❖ Distributed data: LDAP, Web, etc.
  - ❖ Techniques: time management, failover management, etc.
- ◆ Operating systems (Linux, \*BSD, Mac, Solaris, NT, etc.):
  - ❖ File systems and storage systems
  - ❖ Interoperability of heterogeneous systems
  - ❖ Embedded systems
- ◆ Systems and network security:
  - ❖ Intrusion detection and prevention
  - ❖ Hacking and countermeasures
  - ❖ General security topics: Internet, wireless, data, etc.
- ◆ Applications and algorithms:
  - ❖ Security and privacy, cryptography
  - ❖ Web-based technologies
  - ❖ Mobile code and mobile computing
  - ❖ New algorithms and applications
  - ❖ Application development (threads, Perl, scripting, etc.)
- ◆ Technologies:
  - ❖ Wireless and mobile computing
  - ❖ Personal digital assistants
  - ❖ Distributed, replicated, and Web-based systems
- ◆ Emerging technologies:
  - ❖ New applications
  - ❖ New technologies
- ◆ Topics not listed above!

To provide the best possible tutorial slate, USENIX continually solicits proposals for new tutorials. If you are interested in presenting a tutorial, contact Dan Klein, Training Program Coordinator, [dvk@usenix.org](mailto:dvk@usenix.org).