8th USENIX Symposium on Networked Systems Design and Implementation (NSDI '11)

Sponsored by USENIX in cooperation with ACM SIGCOMM and ACM SIGOPS

http://www.usenix.org/nsdi11

March 30–April 1, 2011   **Boston, MA**

Important Dates

Paper titles and abstracts due: *September 16, 2010, 5:00 p.m. PDT*
Complete paper submissions due: *September 23, 2010, 5:00 p.m. PDT (hard deadline)*
Notification of acceptance: *December 10, 2010*
Papers due for shepherding: *February 15, 2011*
Final papers due: *March 2, 2011*

Symposium Organizers

Program Co-Chairs

David G. Andersen, *Carnegie Mellon University*
Sylvia Ratnasamy, *Intel Labs Berkeley*

Program Committee

Aditya Akella, *University of Wisconsin—Madison*
Katerina Argyraki, *École Polytechnique Fédérale de Lausanne (EPFL)*
Remzi Arpaci-Dusseau, *University of Wisconsin—Madison*
Hari Balakrishnan, *Massachusetts Institute of Technology*
Andrew Birrell, *Microsoft Research*
Byung-Gon Chun, *Intel Labs Berkeley*
Jason Flinn, *University of Michigan*
Rodrigo Fonseca, *Brown University*
Paul Francis, *Max Planck Institute for Software Systems*
Brad Karp, *University College London*
Dina Katabi, *Massachusetts Institute of Technology*
Eddie Kohler, *University of California, Los Angeles, and Meraki*
Jinyang Li, *New York University*
Bruce Maggs, *Duke University and Akamai Technologies*
Ratul Mahajan, *Microsoft Research*
David Maltz, *Microsoft Research*
David Mazières, *Stanford University*
Jitendra Padhye, *Microsoft Research*
KyoungSoo Park, *KAIST (Korea Advanced Institute of Science and Technology)*
Jennifer Rexford, *Princeton University*
Alex C. Snoeren, *University of California, San Diego*
Lakshminarayanan Subramanian, *New York University*
Helen Wang, *Microsoft Research*
Bill Weihl, *Google*

Steering Committee

Thomas Anderson, *University of Washington*
Brian Noble, *University of Michigan*
Jennifer Rexford, *Princeton University*
Mike Schroeder, *Microsoft Research*
Chandu Thekkath, Microsoft Research
Amin Vahdat, *University of California, San Diego*
Ellie Young, *USENIX*

Overview

NSDI focuses on the design principles, implementation, and practical evaluation of large-scale networked and distributed systems. Systems as diverse as Internet routing, data centers, peer-to-peer and overlay networks, storage clusters, sensor networks, Web-based systems, and measurement infrastructures share a set of common challenges. Our goal is to bring together researchers from across the networking and systems community to foster a broad approach to addressing our common research challenges.

Topics

NSDI will provide a high-quality, single-track forum for presenting new results and discussing ideas that overlap these disciplines. We seek a broad variety of work that furthers the knowledge and understanding of the networked systems community as a whole, continues a significant research dialog, or pushes the architectural boundaries of large-scale network services. We solicit papers describing original and previously unpublished research. Specific topics of interest include but are not limited to:

- Highly available and reliable networked systems
- Security and fault tolerance of networked systems
- Clean-slate approaches to networked systems
- Distributed storage, caching, and query processing
- Energy-efficient computing in networked systems
- Overlay networks and peer-to-peer systems
- Mobile and wireless networked systems
- Protocols and operating system support for sensor networking
- Network measurements, workload, and topology characterization systems
- Self-organizing, autonomous, and federated networked systems
- Managing, debugging, and diagnosing problems in networked/distributed systems
- Virtualization and resource management for networked systems and clusters
- Practical protocols and algorithms for networked systems
- Experience with deployed networked systems
- Novel operating system support for networked systems

What to Submit

Submissions must be full papers, at most 14 single-spaced 8.5" x 11" pages, including figures, tables, and references, two-column format, using 10-point type on 12-point (single-spaced) leading, with a maximum text block of 6.5" wide x 9" deep with .25" inter-column space. **Papers that do not meet the size and formatting requirements will not be reviewed.** Submissions will be judged on originality, significance, interest, clarity,

relevance, and correctness. NSDI is single-blind, meaning that authors should include their names on their paper submissions and do not need to obscure references to their existing work. Authors must submit their paper's title and abstract by September 16, 2010, and the corresponding full paper is due by September 23, 2010 (hard deadline). All papers must be submitted via the Web form on the NSDI '11 Call for Papers Web site, http://www.usenix.org/nsdi11/cfp. Accepted papers may be shepherded through an editorial review process by a member of the Program Committee. Based on initial feedback from the Program Committee, authors of shepherded papers will submit an editorial revision of their paper to their Program Committee shepherd by February 15, 2011. The shepherd will review the paper and give the author additional comments. All authors, shepherded or not, will upload their final file to the submissions system by March 2, 2011, for the conference Proceedings.

All papers will be available online to registered attendees before the conference. If your accepted paper should not be published prior to the event, please notify production@usenix.org. The papers will be available online to everyone beginning on the first day of the conference, March 30, 2011.

Simultaneous submission of the same work to multiple venues, submission of previously published work, or plagiarism constitutes dishonesty or fraud. USENIX, like other scientific and technical conferences and journals, prohibits these practices and may take action against authors who have committed them. See the USENIX Conference Submissions Policy at http://www.usenix.org/submissionspolicy for details.

Previous publication at a workshop is acceptable as long as the NSDI submission includes substantial new material. For instance, submitting a paper that provides a full evaluation of an idea that was previously sketched in a 5-page position paper is acceptable. Authors of such papers should cite the prior workshop paper and clearly state the submission's contribution relative to the prior workshop publication.

Authors uncertain whether their submission meets USENIX's guidelines should contact the Program Co-Chairs, nsdi11chairs@usenix.org, or the USENIX office, submissionspolicy@usenix.org.

Papers accompanied by nondisclosure agreement forms will not be considered. All submissions will be treated as confidential prior to publication on the USENIX NSDI '11 Web site; rejected submissions will be permanently treated as confidential.

One author per paper will receive a registration discount. USENIX will offer a complimentary registration upon request.

Best Paper Awards
Awards will be given for the best paper(s) at the conference.

Registration Materials
Complete program and registration information will be available in December 2010 on the conference Web site. If you would like to receive the latest USENIX conference information, please join our mailing list at http://www.usenix.org/about/mailing.html.