Join us in Cambridge, MA, April 11–13, 2007, for NSDI ’07, which will focus on the design principles of large-scale networks and distributed systems. Join researchers from across the networking and systems community—including computer networking, distributed systems, and operating systems—in fostering cross-disciplinary approaches and addressing shared research challenges.

This year’s outstanding program includes 27 technical papers carefully selected from a pool of 113 submissions. These high-quality papers represent a diverse range of hot research areas. In addition, NSDI ’07 will feature a poster session where attendees can discuss emerging ideas in networked systems design by talking with leading researchers who are introducing their ongoing work.

REGISTRATION/HOTEL

TECHNICAL SESSION REGISTRATION FEES

Member: $845
Nonmember: $960*
Full-time Student Member: $270
Full-time Student Nonmember: $330*

Early Bird Rates. Deadline is March 19.
Member: $695
Nonmember: $815*
Full-time Student Member: $270
Full-time Student Nonmember: $315*

*Nonmember rates include a one-year USENIX membership.

HOTEL INFORMATION

Hotel Reservation Discount Deadline is Monday, March 19, 2007
Hyatt Regency Cambridge
$139 single/double plus 12.45% tax

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### Wednesday, April 11

**8:45 a.m.–9:00 a.m.**  
Opening Remarks  
Program Chairs: Hari Balakrishnan, Massachusetts Institute of Technology; Peter Druschel, Max Planck Institute for Software Systems

**9:00 a.m.–10:00 a.m.**  
**KEYNOTE ADDRESS**  
Speaker TBA

**10:00 a.m.–10:30 a.m.**  
**Break**

**10:30 a.m.–noon**  
**CONTENT DELIVERY**  
Do Incentives Build Robustness in BitTorrent?  
Michael Piasek, Tomas Isdal, Thomas Anderson, and Arvind KrishnaMurthy, University of Washington; Arun Venkataramani, University of Massachusetts

Exploiting Similarity for Multi-Source Downloads Using File Fingerprints  
Himabindu Pucha, Purdue University; David Andersen, Carnegie Mellon University; Michael Kaminsky, Intel Research

Content-based Filtering and Aggregation of Blogs and RSS Feeds  
Ian Rose, Rohan Murty, Peter Pietzuch, Jonathan Ledlie, Mema Roussopoulos, and Matt Welsh, Harvard University

noon–1:30 p.m.  
Lunch (on your own)

**1:30 p.m.–3:00 p.m.**  
**OVERLAYS AND MULTICAST**  
Information Slicing: Anonymity Using Unreliable Overlays  
Sachin Katti, Jeffrey Cohen, and Dina Katabi, Massachusetts Institute of Technology

A Shared Control Plane for Overlay Multicast  
Animesh Nandi, Rice University and Max Planck Institute for Software Systems; Aditya Ganjam, Carnegie Mellon University; Peter Druschel, Max Planck Institute for Software Systems; T.S. Eugene Ng, Carnegie Mellon University; Ion Stoica, University of California, Berkeley; Hui Zhang, Carnegie Mellon University

Ricochet: Lateral Error Correction for Time-Critical Multicast  
Mahesh Balakrishnan and Ken Birman, Cornell University; Amar Phanishayee, Carnegie Mellon University; Stefan Pleisch, Cornell University

3:00 p.m.–3:30 p.m.  
**BREAK**

**3:30 p.m.–5:00 p.m.**  
**WIRELESS**  
WILDNet: Design and Implementation of High Performance WiFi Based Long Distance Networks  
Rabin Patra, Sergiu Nedevschi, and Sonesh Surana, University of California, Berkeley; Anmol Sheth, Colorado University at Boulder; Lakshminarayanan Subramanian, New York University; Eric Brewer, University of California, Berkeley

S4: Small State and Small Stretch Routing Protocol for Large Wireless Sensor Networks  
Yun Mao, University of Pennsylvania; Feng Wang, Lili Qiu, and Simon Lam, University of Texas at Austin; Jonathan Smith, University of Pennsylvania

Where Are They and What Are They Doing: On the Importance of Locating Clients for Managing Enterprise WLANs  
Ranveer Chandra, Jitendra Padhye, Alec Wolman, and Brian Zill, Microsoft Research

6:00 p.m.–8:00 p.m.  
**POSTER SESSION AND RECEPTION**

### Thursday, April 12

**9:00 a.m.–10:30 a.m.**  
**TOLERATING FAULTS AND MISBEHAVIOR**  
Beyond One-third Faulty Replicas in Byzantine Fault Tolerant Systems  
Jinyuan Li, VMware, Inc.; David Mazières, Stanford University

Ensuring Content Integrity for Untrusted Peer-to-Peer Content Distribution Networks  
Nikolaos Michalakis, Robert Soule, and Robert Grimm, New York University

TightLip: Keeping Applications from Spilling the Beans  
Aydan Yumerefendi, Benjamin Mickle, and Landon Cox, Duke University

10:30 a.m.–11:00 a.m.  
**BREAK**

11:00 a.m.–noon  
**NETWORK MEASUREMENT**  
Peering Through the Shroud: The Effect of Edge Opacity on IP-Based Client Identification  
Martin Casado and Michael Freedman, Stanford University

A Systematic Framework for Unearthing the Missing Links: Measurements and Impact  
Yihua He, Georgos Siganos, Michalis Faloutsos, and Srikanth Krishnamurthy, University of California, Riverside

noon–1:30 p.m.  
Symposium Luncheon

**1:30 p.m.–3:00 p.m.**  
**EMULATION AND VIRTUALIZATION**  
Combining the Strengths of Overlay and Emulation Network Testbeds  
Jonathon Duerig, Robert Ricci, Daniel Gebhardt, Mike Hibler, Junxing Zhang, Sneha Kasera, and Jay Lepreau, University of Utah

An Experimentation Workbench for Replayable Networking Research  
Erc Eide, Leigh Stoller, and Jay Lepreau, University of Utah

Black-box and Gray-box Strategies for Virtual Machine Migration  
Timothy Wood, Prashant Shenoy, and Arun Venkataramani, University of Massachusetts; Mazin Yousiif, Intel Portland

**3:00 p.m.–3:30 p.m.**  
**BREAK**

**3:30 p.m.–5:30 p.m.**  
**DEBUGGING AND DIAGNOSIS**  
Charles Kilian, James Anderson, Ranjit Jhala, and Amin Vahdat, University of California, San Diego

WiDS Checker: Combating Bugs in Distributed Systems  
Xuezheng LIU, Wei LIN, Aimin PAN, and Zheng Zhang, Microsoft

XTrace: A Pervasive Network Tracing Framework  
Rodrigo Fonseca, George Porter, Randy Katz, Scott Shenker, and Ion Stoica, University of California, Berkeley

Friday, April 13

**9:00 a.m.–10:00 a.m.**  
**NETWORK LOCALIZATION**  
Network Coordinates in the Wild  
Jonathan Ledlie, Harvard University; Paul Gardner, Aelitis; Margo Seltzer, Harvard University

Ocitant: A Comprehensive Framework for the Geolocalization of Internet Hosts  
Bernard Wong, Ivan Stoyanov, and Emin Gün Sirer, Cornell University

10:00 a.m.–10:30 a.m.  
**BREAK**

10:30 a.m.–12:30 p.m.  
**INTERNET INFRASTRUCTURE**  
dFence: Transparent Network-based DoS Mitigation  
Ajay Mahimkar, Jarsaj Dange, Vitaly Shmatikov, Harrick Vin, and Yin Zhang, University of Texas at Austin

R-BGP: Staying Connected in a Connected World  
Nate Kushman, Srikanth Kandula, and Dina Katabi, Massachusetts Institute of Technology; Bruce Maggs, Carnegie Mellon University

Mutually Controlled Routing with Independent ISPs  
Ratul Mahajan, Microsoft Research; David Wetherall, University of Washington; Intel Research; Thomas Anderson, University of Washington

Tesseract: A 4D Network Control Plane  
Hong Yan, Carnegie Mellon University; T. S. Eugene Ng, Rice University; David Maltz, Microsoft Research; Hui Zhang and Heman Sirer, Carnegie Mellon University; Zheng Cai, Rice University; Andy Myers, Carnegie Mellon University