Join us in Boston, MA, April 22–24, 2009, for NSDI ’09, which will focus on the design principles of large-scale networks and distributed systems.

NSDI will bring together researchers from across the networking and systems community in fostering cross-disciplinary approaches and addressing shared research challenges.

Topics for 2009 include: Trust and privacy, storage, content distribution, green networked systems, and more.

Poster session: Submissions are due March 1, 2009. See http://www.usenix.org/nsdi09/posters for information on how to submit your work.

Check out these co-located workshops:
- 8th International Workshop on Peer-to-Peer Systems (IPTPS ’09), Tuesday, April 21
- 2nd USENIX Workshop on Large-Scale Exploits and Emergent Threats (LEET ’09), Tuesday, April 21
http://www.usenix.org/nsdi09/workshops

REGISTRATION/HOTEL INFORMATION
Early Bird Registration Deadline: Monday, March 30, 2009
USENIX is pleased to offer an Early Bird Registration Discount of $150 to those who register for NSDI ’09 by Monday, March 30, 2009. After March 30, registration fees increase.

Registration Fees

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<th>Technical Sessions</th>
<th>Before March 30</th>
<th>After March 30</th>
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<td>$740</td>
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If you are not a member of USENIX, EuroOpen.SE, NUUG, ACM SIGOPS, or ACM SIGCOMM, $125 will be added to your registration fees.

Registration Fees for Full-Time Students: $270
This special low registration fee is available at any time.
Students who are not members of USENIX: $50 will be added to your registration fees.

Hotel Information
Hotel Reservation Discount Deadline: March 30, 2009
The Boston Park Plaza Hotel & Towers
Special Attendee Room Rate: $189 single/double plus 12.45% tax.
See http://www.usenix.org/nsdi09/hotel for more information.

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SPONSORED BY USENIX IN COOPERATION WITH ACM SIGCOMM & ACM SIGOPS
Wednesday, April 22
8:45 a.m.—9:00 a.m.  Wednesday
Opening Remarks and Best Paper Awards
Program Co-Chairs: Jennifer Rexford, Princeton University; Emin Gun Sirer, Cornell University
9:00 a.m.—10:30 a.m.  Wednesday
Trust and Privacy
Trinc: Small Trusted Hardware for Large Distributed Systems
Dave Levin, University of Maryland; John R. Douceur, Jacob R. Loch, and Thomas Moscibroda, Microsoft Research
Sybil-Resilient Online Content Rating
Dinh Nguyen Tran, Bonan Min, Jinyang Li, and Lakshminarayanan Subramanian, New York University
Bunker: A Privacy-Oriented Platform for Network Tracing
Andrew G. Miklas, University of Toronto; Stefan Saroiu and Alec Wolman, Microsoft Research; Angela Demke Brown, University of Toronto
10:30 a.m.—11:00 a.m.  Wednesday
Break
11:00 a.m.—noon  Wednesday
Storage
Flexible, Wide-Area Storage for Distributed Systems with WheelIFS
Jeremy Striegel, MIT CSAIL; Yair Sovan, New York University; Irene Zhang and Kavith Prettzer, MIT CSAIL; Jinyang Li, New York University; Robert Morris and M. Frans Kaashoek, MIT CSAIL
PADS: A Policy Architecture for Building Data Storage Systems
Nalini Belaramani, The University of Texas at Austin; Jiandan Zheng, Amazon.com Inc.; Amol Nayate, IBM T.J. Watson Research Center; Robert Soule, New York University; Mike Dahlin, The University of Texas at Austin; Robert Grimm, New York University
Noon—1:30 p.m.  Lunch (on your own)
1:30 p.m.—2:30 p.m.  Wednesday
Wireless #1: Software Radios
Sora: High Performance Software Radio Using General Purpose Multi-core Processors
Kun Tan, Jiansong Zhang, and Haitao Wu, Microsoft Research Asia; Fang Ji, Beijing Jiao Tong University; He Liu, Yusheng Ye, and Shen Wang, Tsinghua University; Yuxiang Zhang and Wei Wang, Microsoft Research Asia; Geoffrey M. Voelker, University of California, San Diego
Enabling MAC Protocol Implementations on Software-defined Radios
George Nychis, Sirivasana Seshan, Peter Steenkiste, Thibaud Hotellerie, and Zhoucheng Yang, Carnegie Mellon University

2:30 p.m.—3:00 p.m.  Break
3:00 p.m.—4:30 p.m.  Wednesday
Content Distribution
AntFarm: Efficient Content Distribution with Managed Swarms
Ryan S. Peterson and Emin Gun Sirer, Cornell University
HashCache: Cache Storage for the Next Billion
Anirudh Badam, KyoungSoo Park, Vivek S. Pau, and Larry L. Peterson, Princeton University
iPlane Nano: Path Prediction for Peer-to-Peer Applications
Hansha V. Madhyastha, University of California, San Diego; Ethan Katz-Bassett, Thomas Andersen, and Arvind Krishnamurthy, University of Washington; Arun Venkataraman, University of Massachusetts Amherst

4:30 p.m.—5:30 p.m.  Wednesday
BFT
Making Byzantine Fault Tolerant Systems Tolerate Byzantine Faults
Lorenzo Alvisi, Allen Clement, and Mike Dahlin, The University of Texas at Austin; Mirco Marchetti, University of Mondeila and Reggio Emilia; Edmund Wong, The University of Texas at Austin
Zeno: Eventually Consistent Byzantine Fault Tolerance
Atul Singh, MPI-SWS and Rice University; Pedro Fonseca, Petr Kuznetsov, and Rodrigo Rodrigues, MPI-SWS; Petros Maniatis, Intel Research Berkeley
6:00 p.m.—8:00 p.m.  Wednesday
Reception and Poster Session
The poster session will allow researchers to present recent and ongoing projects. See www.usenix.org/nsdi09/posters for details.

Thursday, April 23
8:30 a.m.—10:30 a.m.  Thursday
Evaluation/Correctness
SPLAY: Distributed Systems Evaluation Made Simple (or How to Turn Ideas into Live Systems in a Breeze)
Lorenzo Leonini, Etienne Rivière, and Pascal Felber, University of Neuchâtel, Switzerland
Modeling and Emulation of Internet Paths
Pramod Sanaga, Jonathon Duerig, Robert Ricci, and Jay Lepreau, University of Utah
MODIST: Transparent Model Checking of Unmodified Distributed Systems
Junfeng Yang, Columbia University; Ticheng Chen, Ming Wu, Zhihe Xu, Xuezheh Liu, Haoxiang Lin, Mao Yang, and Fan Long, Microsoft Research Asia; Lintao Zhang and Lidong Zhou, Microsoft Research Silicon Valley
CrystalBall: Predicting and Preventing Inconsistencies in Deployed Distributed Systems
Maysam Yabandeh, Nikola Knežević, Dejan Kostić, and Viktor Kuncak, EPFL
10:30 a.m.—11:00 a.m.  Thursday
Break
11:00 a.m.—12:30 p.m.  Thursday
Wide-Area Services and Replication
Tolerating Latency in Replicated State Machines Through Client Speculation
Benjamin Wester, University of Michigan; James Cowling, MIT CSAIL; Edmund B. Nightingale, Microsoft Research; Peter M. Chen and Jason Flinn, University of Michigan; Barbara Liskov, MIT CSAIL
Cimbiosys: A Platform for Content-based Partial Replication
Venugopalan Ramasubramanian, Thomas L. Rodheuffer, and Douglas B. Terry, Microsoft Research; Meg Walda-Sullivan, University of California, San Diego; Ted Webber and Cathy Marshall, Microsoft Research; Arvin Vahdat, University of California, San Diego
RPC Chains: Efficient Client-Server Communication in Geodistributed Systems
Yee Juan Song, Marcos K. Aguilera, Rama Kotla, and Dahlia Malkhi, Microsoft Research Silicon Valley
12:30 p.m.—2:00 p.m.  Thursday
Symposium Luncheon
2:00 p.m.—3:30 p.m.  Thursday
Botnets
Studying Spawning Botnets Using Botlab
John P. John, Alexander Moschuch, Steven D. Gribble, and Arvind Krishnamurthy, University of Washington
Not-a-Bot: Improving Service Availability in the Face of Botnet Attacks
Ramakrishna Gummadri and Hari Balakrishnan, MIT CSAIL; Petros Maniatis and Sylvia Ratnasamy, Intel Research Berkeley
BotGraph: Large Scale Spamming Botnet Detection
Yao Zhao, Northwestern University; Yinglian Xie, Fang Yu, Qifa Ke, and Yuan Yu, Microsoft Research Silicon Valley; Yan Chen, Northwestern University; Eliot Gillum, Microsoft Corporation
3:30 p.m.—4:00 p.m.  Thursday
Network Management
Unraveling the Complexity of Network Management
Theophilus Benson and Aditya Akella, University of Wisconsin, Madison; Dave Maltz, Microsoft Research
NetPrints: Diagnosing Home Network Misconfigurations Using Shared Knowledge
Bhavish Aggarwal, Ranjita Bhagwan, and Tathagata Das, Microsoft Research India; Siddharth Eswaren, IIT Delhi; Venkata N. Padmanabhan, Microsoft Research India; Geoffrey M. Voelker, University of California, San Diego
5:00 p.m.—6:00 p.m.  Thursday
Green Networked Systems
Somnoquoy: Augmenting Network Interfaces to Reduce PC Energy Usage
Yuvraj Agrawal, University of California, San Diego; Ranveer Chandra, Steve Hodges, James Scott, and Paramvir Bahl, Microsoft Research; Rajesh Gupta, University of California, San Diego
Skilled in the Art of Being Idle: Reducing Energy Waste in Networked Systems

Friday, April 24
9:00 a.m.—10:30 a.m.  Friday
Wireless #2: Programming and Transport
Wishbone: Profile-based Partitioning for Sensornet Applications
Ryan Newton, Sivan Toledo, Lewis Good, Hari Balakrishnan, and Samuel Madden, MIT CSAIL
Softspeak: Making VoIP Play Well in Existing 802.11 Deployments
Patrick Verkaik, Yuvraj Agrawal, Rajesh Gupta, and Alex C. Snoeren, University of California, San Diego
Block-switched Networks: A New Paradigm for Wireless Transport
Ming Li, Devesh Agrawal, Deepak Ganesan, Arun Venkataraman, and Himanshu Agrawal, University of Massachusetts Amherst
10:30 a.m.—11:00 a.m.  Friday
Break
11:00 a.m.—12:30 p.m.  Friday
Routting
NetReview: Detecting When Interdomain Routing Goes Wrong
Andreas Haeberlen, MYP-SWS; Ioannis Avramopoulos, Deutsche Telekom Laboratories; Jennifer Rexford, Princeton University; Peter Druschel, MYP-SWS
Making Routers Longer with ViAggre
Hitesh Ballani, Paul Francis, and Tuan Cao, Cornell University; Jia Wang, AT&T Labs — Research
Symbiotic Relationships in Internet Routing Overlays
Cristian Lumezanu, Randolph Baden, Dave Levin, Neil Spring, and Bobby Bhattacharjee, University of Maryland