

Announcement and Call for Papers



2010 Internet Network Management Workshop/ Workshop on Research on Enterprise Networking (INM/WREN '10)

Sponsored by USENIX, the Advanced Computing Systems Association http://www.usenix.org/inmwren10

April 27, 2010 San Jose, CA

INM/WREN '10 will be co-located with the 7th USENIX Symposium on Networked Systems Design and Implementation (NSDI '10), which will take place April 28–30, 2010.

Important Dates

Paper registration due: February 12, 2010, 11:59 p.m. PST Paper submissions due: February 19, 2010, 11:59 p.m. PST

Notification of acceptance: March 22, 2010

Final papers due: April 6, 2010

Workshop Organizers

Program Chairs

Aditya Akella, *University of Wisconsin—Madison* Nick Feamster, *Georgia Institute of Technology* Sanjay Rao, *Purdue University*

Program Committee

Ehab Al-Shaer, University of North Carolina, Charlotte Hitesh Ballani, Microsoft Research Ranjita Bhagwan, Microsoft Research, Bangalore Olivier Bonaventure, UCL, Louvain-la-Neuve, Belgium Randy Bush, Internet Initiative Japan Ken Calvert, University of Kentucky Martin Casado, Nicira Russ Clark, Georgia Institute of Technology Anja Feldmann, Deutsche Telekom Geoff Huston, APNIC Gianluca Iannaccone, Intel Research Farnam Jahanian, University of Michigan Srikanth Kandula, Microsoft Research Sachin Katti, Stanford University Ramana Kompella, Purdue University Andrew Moore, University of Cambridge Richard Mortier, Vipadia Sanjai Narain, Telecordia Eugene Ng, Rice University Jeffrey Pang, AT&T Labs—Research Guru Parulkar, Stanford University Vern Paxson, University of California, Berkeley/ICSI Anees Shaikh, IBM Research Rob Sherwood, Deutsche Telekom, USA Nina Taft, Intel Research Kobus van der Merwe, AT&T Research David Ward, Cisco Praveen Yalagandula, HP Labs

Steering Committee

Ehab Al-Shaer, University of North Carolina, Charlotte Albert Greenberg, Microsoft Research Chuck Kalmanek, AT&T Labs—Research David Maltz, Microsoft Research Jeff Mogul, HP Labs Tze Sing Eugene Ng, Rice University Geoffrey Xie, Naval Postgraduate School

USENIX Board Liaison

Alva Couch, Tufts University

Overview

The joint INM/WREN workshop seeks to bring together researchers in two closely related communities: network management and enterprise networks. There are several synergies between the two communities, and this workshop provides a common forum for researchers working in this space.

On the one hand, management of communications networks is an important and under-studied aspect of computer networking. Network management problems call for principled (including clean-slate) approaches that will improve network management and perhaps even make manageability an intrinsic property of the network itself.

On the other hand, the increasing complexity of private enterprise networks and datacenter networks, and nuances specific to them, calls for approaches that are optimized for these settings. While managing enterprise networks is particularly vexing and costly for network operators, several other challenges related to enterprises must be addressed: for example, security, management of end-host software and applications, end-to-end performance and availability, data management, and storage.

The INM/WREN workshop invites papers that identify new problem areas, present new system designs and end-host/network architectures, and offer new methods and measurement insights pertaining to network management and enterprise networks. We welcome papers that use data and measurements in a bottom-up fashion to gain insight into the issues of network management or that use that data to motivate top-down rethinking of network systems and architectures. We strongly encourage the submission of papers describing systems and middleware that solve fundamental issues in network management and enterprise networks. We explicitly solicit papers on new designs for enterprise networks, including security issues and data-center network designs.

As this is a workshop, complete implementation and results are not required, but clear statements of the problem and of the approach are.

Topics

Topics of interest include but are not restricted to:

- Comparisons of management for public and enterprise networks
- Enterprise network design and management
- Fault and performance management, diagnosis, and troubleshooting
- New abstractions for network configuration management
- New control-plane architectures and data-plane mechanisms
- Workload characterization for enterprise networks
- Measurements and insights from network operations
- Hitless planned maintenance
- Data-center network design and measurement
- Mobile and wireless communications and mobility management in enterprises
- Open router platforms: design and applications
- End-to-end QoS and performance management for enterprise networks
- Emerging security threats in enterprises and solutions
- System design issues, including operating system support for enterprise-specific applications, enterprise middleware, etc.
- Managing energy consumption in networks
- Convergence between IP networks and SAN/cluster networks
- Topology and node (switch + endpoint) discovery
- Experience with prototype systems for network management
- Metrics, techniques, and experiments for evaluating network management architectures
- Experimental platforms that support network management research

Please contact the program chairs at inmwren10chairs@usenix. org if you have questions about the relevance of your topic.

Submissions

Submitted papers must be no longer than six 8.5" x 11" pages. Your paper should be typeset in two-column format in 10 point type on 12 point (single-spaced) leading, with a text block no more than 6.5" wide by 9" deep. Submissions are single-blind; authors should include their names and affiliations as part of their submissions. Papers violating these format rules run the risk of being rejected without further review; no extensions will be granted for reformatting. Submissions must be in PDF format and must be submitted via the Web submission form on the INM/WREN '10 Call for Papers Web site, http://www.usenix.org/inmwren10/cfp. Submissions will be judged on originality, significance, interest, clarity, relevance, and correctness.

All papers will be available online to registered attendees before the workshop. 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 day of the workshop, April 27, 2010.

Papers accompanied by nondisclosure agreement forms will not be considered. Accepted submissions will be treated as confidential prior to publication on the USENIX INM/WREN '10 Web site; rejected submissions will be permanently treated as confidential.

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. Questions? Contact your program chair, inmwren10chairs@usenix.org, or the USENIX office, submissionspolicy@usenix.org.

Past Workshops

This is the fourth INM workshop and the second WREN workshop. The previous INM workshops have been held in conjunction with ACM SIGCOMM (2006 and 2007) and with IEEE ICNP (2008). The previous WREN workshop was held in conjunction with ACM SIGCOMM (2009). For ease of reference, here are links to past years' workshops:

- INM 2008: http://www.cs.rice.edu/~eugeneng/inm08/
- INM 2007: http://conferences.sigcomm.org/sigcomm/2007/ inm/
- INM 2006: http://research.microsoft.com/en-us/um/ people/dmaltz/inm06/home.html
- WREN 2009: http://conferences.sigcomm.org/sigcomm/ 2009/workshops/wren/