

Call For Papers – ACM SIGCOMM Workshop on Measurements Up the Stack (W-MUST)

August 19, 2011, Toronto, Canada
Co-located with SIGCOMM 2011

Researchers are increasingly using end-host measurements to explore the behavior of networked applications and user perceptions of Internet services. Examples include measuring where personal information spreads as part of browsing the Web or using mobile phone applications, asking users to rate their current network performance, incentivizing users to contribute measurements as part of using applications, recording how a user interacted with an application to put network measurements in context, and analyzing user-supplied content to understand social media sites. These tasks pose different challenges than classic Internet measurement techniques that use packet traces to understand low-level network properties; low-level traces are not sufficient to understand application behavior because they are foiled by high-level dependencies such as encryption and lack information regarding how the application was used, moreover they may not necessarily reflect the service the user perceives. Rather, framing measurement in a way that relates to the user is a key consideration for measurement “up the stack,” whether it is gathering or analyzing measurements that relate to user concepts, devising ways for users to provide input on their perceptions, or finding ways to encourage users to contribute measurements.

W-MUST aims to bring together researchers and practitioners in the networking and HCI communities to share new ideas and experiences, and to discuss the challenges of measurement “up the stack”. We solicit short papers describing positions and work-in-progress that will generate lively discussion. We are particularly interested in end-host and user-facing measurement of network services and applications targeted for a broad variety of uses such as diagnosis and troubleshooting, reliability, performance and quality of service, and security and privacy. Work that solely considers network-level traces or does not relate to some user perspective is out of scope. Topics of interest include but are not limited to:

- Gathering traces of networked applications that reflect user behavior
- Annotating measurement of people’s use of networked applications with context
- Quantifying the user experience with both network-centric and user-centric metrics
- Providing feedback on network or application activity to users
- Incentivizing users to contribute measurements
- Techniques for gathering user perspectives during measurement collection
- Correlating user experience with low-level measurements
- Data collection techniques that respect personalized user privacy
- Disambiguating user-generated from non-user-generated network activity
- Combining user, application and network measurements on mobile phones
- Exposing hidden activities, on the network and in the cloud, to users.
- Integrating quantitative and qualitative measurements (user studies and surveys)

Submissions

Submissions must be a single PDF file no longer than 6 pages in length including everything. They must include the author name and affiliation for single-blind peer reviewing by the program committee. Submissions must follow the formatting guidelines at <http://www.sigcomm.org/sigcomm/2011>. Authors of accepted papers are expected to present their papers at the workshop. Submissions must be original work not under review at any other workshop, conference, or journal.

The submission website is located at: <http://w-must.cs.washington.edu>

Program Committee:

- Nina Taft, Intel Labs Berkeley (Chair)
- David Wetherall, University of Washington (Chair)
- A.J. Brush, Microsoft Research Redmond
- Meeyoung Cha, KAIST University, S. Korea
- David Choffnes, University of Washington
- Peter Dinda, Northwestern University
- Keith Edwards, Georgia Tech
- Jason Hong, CMU
- Jaeyeon Jung, Intel Labs Seattle
- Renata Teixeira, Universite Pierre et Marie Curie, France

Important Dates:

- **Registration of abstract:** Wed 16 March, 2011 (extended)
- **Full paper submission:** Wed 23 March, 2011 (extended)
- **Acceptance notification:** Fri 29 April, 2011
- **Camera-ready:** Fri 27 May, 2011