CALL FOR PAPERS
Sigcomm 2006 - Workshop on Challenged Networks (CHANTS-06)
Pisa, Italy – September 15, 2006
http://chants.cs.ucsb.edu/

Technical Area

Challenged networks include those found in mobile and in-motion networking, dynamic wireless networks, heterogeneous and mobile sensor networks, interplanetary networking, and networks providing rural connectivity. Such networks are not well served by standard TCP/IP solutions, due to the prevalence of disconnection, disruption, intermittency, large delays, or other factors.

Today, the most successful network architecture is that of the Internet. It has scaled well beyond the original plan of its designers, and the Internet Protocol has been carried on a great number of underlying protocols, including itself. However, the Internet's protocol architecture suffers some problems when implemented on classes of networks for which it was not originally designed. For example, when disconnection and reconnection is common, or link performance is highly variable or extreme, one or more of the traditional Internet protocols do not work well. In this workshop, we wish to explore physical networks that operate significantly differently from wired, connected networks and the protocol architectures and algorithms used to deal with such situations. Techniques for making applications tolerant to disruptions and/or high delays are also in scope. More specifically, we solicit papers in the following areas:

- Characterization of performance-challenged networks, e.g. network measurements
- Networking systems operating over unusual/challenged networks
- Protocol design and evaluation of operations over challenged networks
- Robust network application design and implementation techniques
- Delay tolerant and disruption tolerant networks (DTN)
- Situated and autonomic communications for challenged networks
- Handling user concerns in challenged networks such as network usability, privacy, security and incentives to cooperate.

Submissions may include presentations of specific systems or performance measurements, as well as more general, philosophical position papers. Papers that bring out interesting and novel ideas at an early stage in their development are favored over highly polished, journal-style results. Selected papers will be forward-looking, with impact and implications for ongoing or future research. We aim to accept around 15 papers, and to have a highly interactive workshop focusing on broader issues and community development.

Paper Format and Submission

All submitted papers should be formatted according to the ACM SIG proceeding template found here:
http://www.acm.org/sigs/pubs/proceed/template.html

In particular, this format uses 9pt font in two columns with particular margin sizes. Papers must be no longer than eight pages and must be in PDF format. Papers will be reviewed single blind, which means be sure to include author information on the first page after the title and before the abstract. Papers that do not adhere to these requirements exactly (or attempt to cheat on spacing or fonts) will not be accepted for submission. All papers should be submitted via EDAS. For more details please visit the CHANTS webpage: http://chants.cs.ucsb.edu/

Important Dates

Abstract Registration Deadline: **21 April 2006 (11:59pm EDT)**
Submission Deadline: **Extended to 28 April 2006 (11:59pm EDT)**
Notification of Acceptance: 2 June 2006
Camera Ready Deadline: 16 June 2006
Workshop Date: 15 Sept 2006

Organizing Committee

Technical Program Co-chairs:

Kevin Almeroth, UC-Santa Barbara Email: almeroth@cs.ucsb.edu	James Scott, Intel Research Cambridge Email: james.w.scott@intel.com

Program Committee Members:

Amin Vahdat, University of California, San Diego
Aruna Senevirante, National ICT Australia
Cecilia Mascolo, University College London
Chen-Nee Chuah, University of California, Davis
Deborah Estrin, University of California, Los Angeles
Ellen Zegura, Georgia Institute of Technology
Jörg Ott, Helsinki University of Technology
Kaustubh Phanse, Luleå University of Technology
Kevin Fall, Intel Research Berkeley
Mooi-Choo Chuah, Lehigh University
Mostafa Ammar, Georgia Institute of Technology
Srinivasan Keshav, University of Waterloo
Silvia Giordano, University of Applied Sciences of Southern Switzerland
Scott Burleigh, Jet Propulsion Labs
Timur Friedman, Université Pierre et Marie Curie

Webmaster: Khaled Harras, UC-Santa Barbara