Third Workshop on Challenged Networks (CHANTS 2008)

Co-located with MobiCom 2008, 15 September 2008, San Francisco, CA, USA

Call for Demos

Workshop URI: http://wavedesk.usc.edu/chants/

Important Dates:
Demo submission deadline: 5 June 2008
Demo acceptance notification: 16 June 2008
Camera-ready due: 7 July 2008
Workshop date: 15 September 2008

Challenged networks are characterized by a heterogeneous mix of nodes and widely varying network conditions. Nodes in today's challenged networks often include mobile nodes, space-based nodes, sensor/actuator nodes and other devices. Performance of the network paths interconnecting such nodes can be highly varying in terms of bandwidth, latency, disruption characteristics and security requirements. Conventional Internet access in performance-limited environments such as developing countries can also be regarded as challenged networks as can be ad-hoc communication between personal devices.

The Internet protocol architecture suffers some problems when used in a challenged network setting. 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 following CHANTS 2007, CHANTS 2006 and WDTN 2005, we wish to explore ongoing efforts in dealing with 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.

CHANTS 2008 Demonstration Program offers an excellent way to showcase to attendees from academia and industry tangible results from research and development in the exciting area of challenged networks. Demos have the ability to communicate ideas and concepts in a very powerful way. We invite you to contribute your vision and experience with challenged networks to CHANTS 2008 Demonstration Program. Demo proposals shall present recent practical results from the area of challenged networks. In exceptional cases, where live demos are simply not practical to present, poster or video presentations of practical results are acceptable, too. Accepted demonstration abstracts will be published in the Conference proceedings.

Topics:

- Characterization of performance-challenged networks e.g. measurements, modelling.
- Networking systems operating over unusual/challenged networks.
- Protocol design and evaluation of operations over challenged networks.
- System architecture and design for challenged networks.
- Applications in challenged networks.

- Robust network application design and implementation techniques.
- Delay tolerant and disruption tolerant networks (DTN).
- Configuration and management of challenged networks.

Format and submission instructions:

Demo proposal abstracts (to be published as part of the proceedings) shall not be longer than 3 pages plus 1 page description of the precise setup and requirements. Submitted abstracts should be formatted in two columns, with characters no smaller than 10 point fonts, and must fit properly on US "Letter"-sized paper (8.5x11 inches). Margins must be of 1 inch on all edges (top, bottom, left, and right) of each page. Demo proposals should be sent as a pdf e-mail attachment to chants08-demo@inrg.soe.ucsc.edu.