Third Workshop on Challenged Networks (CHANTS 2008)
co-located with Mobicom 2008, 15 September 2008, San Francisco, CA, USA

Workshop URL:	http://wavedesk.usc.edu/chants/
Submission Instructions:	See Conference Web Page
Abstract registration Deadline:	2 May 2008
Submission Deadline:	9 May 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.

We are soliciting papers addressing aspects in challenged networks including (but not limited to):

- 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

Submissions may include presentations of specific systems or performance measurements, as well as architectural papers addressing new concerns. Papers that bring out problems in the existing proposals for challenged networks or that report operational experience will be favored. Selected papers will be forward-looking, will describe their relationship to existing work, and will have impact and implications for ongoing or future research. We aim to to have a highly interactive workshop focusing on evolving this area of network research and continuing to build its community.

Paper format and submission instructions:

Submitted papers must be no more than 8 pages long, two columns, with no characters in 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.

For submission instructions please see the conference web page http://wavedesk.usc.edu/chants/

Important Meeting Dates:

Abstract registration Deadline:	2 May 2008
Submission Deadline:	9 May 2008
Acceptance Notification:	15 June 2008
Camera Ready Due:	29 June 2008
Workshop Date:	15 September 2008

Organizers / TPC Chairs:

Mostafa Ammar, Georgia Institute of Technology
Konstantinos Psounis, University of Southern California

CHANTS Steering Committee:

Kevin Almeroth, University of California, Santa Barbara
Mostafa Ammar, Georgia Institute of Technology
Christophe Diot, Thomson Research, Paris, France
Deborah Estrin, University of California, Los Angeles
Kevin Fall, Intel Research Berkeley
Jörg Ott, Helsinki University of Technology, Finland
James Scott, Microsoft Research Cambridge, UK

Demo/Poster Chair:

Katia Obrackza, UCSC

Technical Program Committee:

Kevin Almeroth, UCSB
Prithwish Basu, BBN Technologies
Scott Burleigh, NASA/JPL
Augustin Chaintreau, Thomson Labs, Paris
Mooi Choo Chuah, Lehigh University
Jon Crowcroft, University of Cambridge
Marco Conti, IIT-CNR
Mark Corner, UMass Amherst
Stephen Farrell, Trinity College Dublin
Silvia Giordano, University of Applied Science - SUPSI
Ahmed Helmy, University of Florida
Ahmed Kamal, Iowa State University
Gunnar Karlsson, KTH, Royal Institute of Technology

Ed Knightly, Rice University
Rajesh Krishnan, BBN Technologies
Cecilia Mascolo, University College London
Jorg Ott, Helsinki University of Technology
Katia Obrackza, UCSC
Andrea Passarella, IIT-CNR
Caulighi Raghavendra, USC
Injong Rhee, North Carolina State University
Thrasyvoulos Spyropoulos, ETH
Arun Venkataramani, UMass Amherst
Jie Wu, NSF
Wenrui Zhao, Google
Ellen Zegura, Georgia Institute of Technology