Sixth Workshop on Challenged Networks (CHANTS 2011)

Co-located with ACM MobiCom 2011, September 23rd 2011, Las Vegas, Nevada, USA

Challenged networks comprise those situations where communication is desired, but traditional internet protocol architectures fail to provide it effectively. Such networks may be characterized by intermittent connectivity, a heterogeneous mix of nodes, nodal churn, and widely varying network conditions. Common examples of challenged networks include high delay environments such as inter-planetary networks, limited power environments such as sensor and wildlife monitoring networks, underwater networks, and communication in settings that lack infrastructure such as rural and remote areas, and military battlefields. Challenged networks may also be found in everyday settings, when access to traditional infrastructure is restricted, expensive, overly complex, or rapidly changing. The goal of the challenged network engineer is to design and implement systems for effective and efficient communication in this diverse range of conditions.

This workshop builds on the success of the five previous CHANTS workshops, and WDTN 2005. CHANTS provides an ideal venue for researchers and engineers to present cutting-edge work and results in the field of challenged networks. The workshop solicits papers and demos addressing the following topics:

- Delay/disruption-tolerant networks (DTNs)
- Architecture, design, implementation, and evaluation of communication systems for challenged networks
- Case studies involving real challenged network solutions in various stages of development or use
- Analysis and characterization of challenged networks and protocols
- Applications in challenged networks (disaster relief and emergency management, vehicular networks, …)
- Configuration, management, and monitoring of challenged networks
- Security/Privacy concerns and solutions in challenged networks
- Real-world mobility traces of challenged environments
- Test and simulation tools for evaluating challenged network systems
- Applications challenged networking techniques to communication in daily life

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 accept approximately 12 papers, and to have a highly interactive workshop. In addition, demos and experiments are particularly welcome and we aim to accept up to ten demos and have experiments running during the workshop using attendees' mobile device.

Paper format and submission instructions:

Submitted papers must be no more than **6 pages** long, and should adhere to the standard ACM conference proceedings format.	Demo proposal abstracts (to be published as part of the proceedings) shall not be longer than 2 pages plus 1 page description of the precise setup and requirements.
Abstract Registration: **6 May 2011** Submission Deadline: **13 May 2011** Acceptance Notification: 28 June 2011 Camera Ready Due: 15 July 2011 Workshop: 23 September 2011	**TPC Co-Chairs**: Ahmed Helmy (helmy@cise.ufl.edu) University of Florida, USA Franck Legendre (legendre@tik.ee.ethz.ch) ETH Zürich, Switzerland