

Fifth Workshop on Challenged Networks (CHANTS 2010)

Co-located with MobiCom 2010, 24 September 2010, Chicago, Illinois, USA

<http://dtncbone.umiacs.umd.edu/chants2010>

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 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, 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.

The workshop solicits papers and demos relating to the following topics:

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

Selected papers will be forward-looking, will describe their relationship to existing work, and will have implications for ongoing or future research. We aim to accept approximately 12 papers, and to have a highly interactive workshop. Demos have been an integral part of CHANTS, and we aim to accept up to ten demos. Paper authors who can also run a demo of their work are encouraged to do so. In exceptional cases where live demos are not practical, poster or video presentations are acceptable.

Submission Instructions

Submitted papers must be no more than 8 pages long, and should adhere to the standard ACM conference proceedings format (http://www.acm.org/sigs/publications/proceedings-templates). Paper submissions will be handled via EDAS (http://edas.info/N8985)	Demo abstracts (to be published as part of the proceedings) shall be at most 3 pages plus a one page description of the precise setup and requirements. Demo proposals should be emailed to Earl Oliver by 18 June.
Important Dates: Abstract Registration: 21 May 2010 Submission Deadline: 28 May 2010 Demo Submission: 18 June 2010 Acceptance Notification: 1 July 2010 Camera Ready Due: 15 July 2010	Co-chairs: Pan Hui Deutsche Telekom Laboratories Pan.Hui@telekom.de Brenton Walker Lab for Telecommunications Sciences brenton@ltsnet.net Demos: Earl Oliver University of Waterloo eaoliver@uwaterloo.ca