The 14th Workshop on Challenged Networks (CHANTS 2019)

colocated with ACM Mobicom 2019, the 25th Annual International Conference on Mobile Computing and Networking
Oct 21-25, Los Cabos, Mexico

CALL FOR PAPERS

The 14th Workshop on Challenged Networks (**CHANTS 2019**) colocated with **ACM Mobicom 2019** seeks original works presented in the form of research papers describing new research approaches and results, as well as demo and poster submissions for **challenged networks**. Challenged networks comprise those situations where communication is desired, but traditional Internet architectures fail to provide it effectively. Such networks may be characterized by intermittent connectivity, a heterogeneous mix of nodes, frequent nodal churn, and widely varying network conditions. The applications of challenged networks range from time-critical communications such as for disaster relief to delay-tolerant transmission in poorly-connected areas or where censorship should be counteracted.

Highly disruptive work-in-progress and position papers are also welcome, provided they focus on particularly innovative solutions or applications for challenged networks. All papers shall be forward-looking, describe their relationship to existing work, and shall argue their impact and implications for ongoing or future research.

TOPICS OF INTEREST

- Delay/disruption-tolerant networks (DTNs), opportunistic communication and computing
- Modeling and analysis of challenged networks and protocols for challenged networks
- Communication systems and networks for underground mining
- Underwater communication systems and networks
- Security/trust/privacy concerns and solutions in challenged networks
- Networking in polar regions
- Millimeter Wave Networking
- Challenged networking techniques for mobile cloud computing and mobile data offloading
- Challenged networking techniques for participatory and opportunistic sensing
- Challenged networking in the Internet of Things and in Cyber-Physical Systems
- Energy-efficient communication in challenged networks
- User behavior modeling and Quality of Service provisioning in challenged networks
- Space-terrestrial networks, lunar networks as well as interplanetary networks
- Information-centric and content-centric networking in challenged networks
- Real-world mobility trace collection, analysis, and modeling for challenged environments
- Network coding in challenged networks
- Real deployment and case studies in various stages of use
- Configuration, management, and monitoring of challenged networks
- Disrupted scenarios for challenged networks (e.g., disaster relief and emergency management)
- User interfaces and interactive applications optimized for Challenged Networks
- Test and simulation tools for evaluating challenged network systems

IMPORTANT DATES

Abstract Registration: June 14, 2019
Submission Deadline: June 21, 2019
Acceptance Notification: July 31, 2019
Camera-ready: August 12, 2019
Workshop: October 25, 2019

ORGANIZING COMMITTEE

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SUBMISSION

General Paper Format
Submitted papers must be no longer than 6 pages, and should adhere to the standard ACM conference proceedings format. All submissions must be written in English. Authors must register the abstract 1 week prior to the full paper submission.

Demo/Poster Format
Demo and poster proposals (to be published as part of the proceedings) must not be longer than 2 pages, for demos plus 1 page description of the precise setup and requirements (the 1-page setup description will not be published in the proceedings).

Submission
Reviews will be single-blinded. Papers should neither have been published elsewhere nor being currently under review by another conference or journal.

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