# Workshop on Wireless Networks: Measurements and Experimentation (WINMeE)

## MAY 9, 2016, IN CONJUNCTION WITH WIOPT, ARIZONA STATE UNIVERSITY, TEMPE, ARIZONA, USA

### Scope

The tremendous growth of wireless technologies and applications as well as the increasing number of radios demand an understanding of in-field performance to design the next generation of wireless systems. Complex channel properties such as multipath, delay spread, and Doppler effects prevent even the most complex channel models from exactly characterizing repeatable in-situ behavior. Abstract models of devices and energy storage, as well as emerging paradigms such as energy harvesting enabled systems, make estimation of system performance quite challenging unless supported by field experiments.

An understanding of paradigms and ideas in wireless systems requires the evaluation of these ideas in the field via empirical measurements. While analytical and simulation-based approaches are useful, they are often limited by the simplistic modeling of the wireless protocols and devices and by the varying and error-prone wireless channel. As a response to these limitations, the need for experimental wireless network measurements has gained wide recognition in the networking research community.

WiNMeE 2016 is the twelfth edition in the International Workshop on Wireless Network Measurements and Experimentation series that began in 2005, and is intended to bring together researchers in the field of experimental wireless networking and serve as a forum for discussing advances and challenges in experimental wireless network measurements and experimentation.

### Topics of interest include, but are not limited to:

- Experience and measurements from building, designing and/or operating production or research wireless networks
- Measurement and characterization of wireless network traffic such as WLANs, cellular networks (including smartphone and mobile application traffic characteristics), wireless home networks, vehicular ad hoc networks, cyber physical and sensing systems
- Experimental methodologies for measurement and analysis of the Internet of Things
- Measurements related to spectrum sharing and cognitive radio networks
- Methodologies for measuring and characterizing heterogeneous wireless networks
- Prediction and inference of user access, demand, mobility and energy availability
- Experiment-driven mobile social network and mobility models
- Experimental validation of network simulators
- Measurement-based network management and troubleshooting
- Experiences with wireless measurements, including novel measurement techniques

- Methodologies for validating wireless test-bed results and improving the repeatability of tests, simplifying experiment setup and reconfiguration
- Software tools for building and/or managing wireless test-beds
- Techniques and experiences with collecting, archiving, anonymizing, analyzing and sharing wireless measurement data

## Workshop Chairs


- Thanasis Korakis, NYU, USA (email: korakis@nyu.edu)
- Theodoros Salonidis, IBM Research, USA (email: tsaloni@us.ibm.com)


## Important Dates

Paper submission: **January 26, 2016**

Notification of acceptance: **March 1, 2016**

Camera ready/registration due: **March 15, 2016**