

## The International Workshop on mmWave Networks—fundamental limits, protocols, and experimental research platforms

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### Call for Papers

Frequency bands above 6 GHz, and especially above 30 GHz, are promising candidates for 5G mobile communications since there is an abundant of spectrum available. Although these millimeter wavelength signals have been used in fixed point-to-point communications, their application in a network of mobile terminals is still in its infancy. The application to mobile communication networks has many challenges including high path loss and body loss, higher penetration and foliage loss, mobility issues, multiple user access, coverage, and deployment issues in urban environments, and much more. Promising techniques include novel beamforming techniques using massive antenna arrays, low form factor chip-scale antennas for base stations and user devices, adaptive backhauling. Despite some progress in the above-mentioned techniques, a complete system design remains elusive.

The objective of the workshop is to provide a platform for developing an integrated solution to millimeter wave wireless communications. This workshop will focus on both physical layer and media access layer issues in developing mmWave communication systems. Topics of interest include:

- mmWave systems: ultra-wideband signaling, modulation, precoding, coding, equalization, and MIMO
- mmWave propagation and channel models
- Antennas designs
- RF and analog circuits and systems for mmWave transceivers
- Beamforming, multiuser MIMO
- Directional MAC, networking, and device discovery
- Relay and cooperative approaches for mmWave wireless networks
- Prototypes, assessment, verification, and experimentation

#### Important Dates

Paper Submission:	May 13, 2016 <b>extended</b>
Acceptance Notification:	June 10, 2016
Camera-Ready:	July 1, 2016
Workshop:	September 4, 2016