



The Third International Workshop on Mobile Communications in Higher Frequency Bands (MCHFB), in conjunction with IEEE Globecom'16.

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Call for Papers

Frequency bands above 6 GHz, and especially above 30 GHz, are becoming promising candidate for 5G mobile communications because there are up to tens of GHz of spectrum available. Although higher frequencies have been widely applied to point-to-point communications, their application to mobile communication is still at a very early stage. Application of higher frequency to mobile communications has many challenges including high path loss and body loss, higher penetration and foliage loss, mobility issues, multiple user access, coverage, adaptive access and backhaul and deployment issues in dense network, etc. Promising techniques include novel beamforming techniques using massive antenna arrays, low form factor chip-scale antennas for base stations and user devices, adaptive backhauling and various system and deployment issues. Despite some progress in the above-mentioned techniques, a complete system design remains elusive.

Topics of interest include but are not limited to the following:

- Candidate higher frequency spectrum including regulatory issues
- Channel propagation characteristics
- Channel measurement and model @ mmWave
- Cellular system design @ mmWave
- Adaptive beamforming techniques
- Hybrid MIMO and beamforming
- New RF for mm Wave signals
- Antenna design considerations @ mm Wave
- Radio transmission technology
- Joint backhaul and access resource scheduling
- Dense network with millimeter-wave links
- Adaptive self-backhauling
- Related standard progress
- Use of license-exempt spectrum
- Prototype assessment and verification

Important Dates

Paper Submission: July 1, 2016
Acceptance Notification: September 1, 2016
Camera-Ready: October 1, 2016
Workshop: December 4, 2016