IEEE 2nd Workshop on Device-to-Device and Public Safety Communications (WDPC)

New Orleans, Louisiana, USA March 9, 2015

Workshop Website: http://wdpc.fiu.edu

Co-located with IEEE Wireless Communications and Networking Conference (WCNC)

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Important Dates

Paper Submission
~~November 1, 2014~~
**November 17, 2014
(Extended)**

Acceptance Notification
December 15, 2014

Manuscript Due
January 10, 2015

Keynote Speakers

Dr. Klaus F. Doppler, Nokia Research Center, USA

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Device-to-Device (D2D) communications as an underlay for wireless cellular networks is viewed as a key technology for providing seamless, high-quality wireless access in next-generation wireless systems. The D2D concept is built around the idea of allowing the wireless devices to communicate with one another via direct D2D links over licensed or unlicensed spectrum. Unlike traditional short-range D2D technologies such as Bluetooth or Zigbee, D2D in cellular systems is expected to provide high capacity and guaranteed QoS over long ranges. D2D is also expected to lead to novel wireless applications such as proximity services and robust public safety communications. Indeed, D2D is seen as a key feature of 5G wireless systems. However, reaping the benefits of D2D requires handling several challenges such as interference management, self-organization, network discovery, and resource allocation, among others. The goal of this workshop is to bring together academic and industrial researchers to identify and discuss technical challenges and recent results related to D2D and public safety communications. Topics of interest include, but are not limited to the following:

- Advances in 3GPP standardization related to D2D and public safety communications
- Applications of D2D communications in public safety scenarios
- Channel measurements/modeling, including new path loss and Doppler models
- D2D proximity services
- Energy efficiency for D2D communications
- Exploiting social networks and public safety communications
- Game-theoretic techniques for D2D communications
- Heterogeneous and 5G networks with underlaid D2D systems
- Interference cancellation and coordination
- Localization and ranging
- Mobility, traffic, and channel models for public safety communications
- Neighbor discovery techniques
- Pricing, accounting and economics of D2D systems
- Resource allocation and power control
- Sensing and measuring social phenomena using D2D systems
- Techniques using heterogeneous spectral bands
- Unmanned Aerial Vehicles (UAVs) for public safety scenarios
- Wi-Fi Direct and multi-hop D2D communications
- Wireless personal area networks (WPANs) and IEEE 802.15.8

Papers should be written in English with a maximum paper length of 6 printed pages (10-point font) including figures. Papers that are longer than 6 pages will not be reviewed. For your submission you can use the standard IEEE Transactions templates for MS Word/LaTeX formats at http://www.ieee.org/go/conferencepublishing/templates