

# IEEE 1<sup>st</sup> Int. Workshop on Device to Device and Public Safety Communications (WDPC), Istanbul, Turkey, Sunday April 6, 2014

## Workshop Chairs

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**Ismail Guvenc**

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**Walid Saad**

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University of Nevada-Reno, NV

## Local Arrangements Chair

**Hasari Celebi**, GYTE, Turkey



## Co-located with IEEE Wireless Communications and Networking Conference (WCNC), April 6-9 2014, Istanbul, Turkey

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.

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## Main Topics

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 PS communications. Topics of interest include, but are not limited to the following:

- D2D neighbor discovery techniques
- D2D and multi-hop communications
- D2D channel measurements/modeling, including new path loss and Doppler models
- Recent advances in 3GPP Release-12 standardization related to D2D and public safety communications
- Energy efficiency analysis for D2D communications
- Game-theoretic techniques for D2D communications
- Resource allocation and power control for D2D communications
- Interference cancellation and coordination for D2D communications
- Localization and ranging in D2D scenarios
- Applications of D2D communications in public safety scenarios
- Mobility, traffic, and channel models for public safety communications
- Exploiting social networks for D2D and public safety communications
- Experimental results on D2D proximity services and public safety scenarios
- Pricing and accounting for D2D systems and D2D economics
- Sensing and measuring social phenomena using D2D systems

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>.

Workshop information: <https://sites.google.com/site/wdpc2014/>

## Keynote Speakers

**Vincent Lau**, Professor, Hong Kong University of Science and Technology, Hong Kong

**Petar Popovski**, Professor, Aalborg University, Denmark

**Amira Alloum**, Member of Technical Staff, Bell Labs, France

## Panel Chair:

**Satoshi Nagata**, NTT DOCOMO, Japan (Chair, 3GPP RAN1 Working Group)

## Important Dates

**Paper Submission:** Oct. 16, 2013

**Nov. 10, 2013 (extended)**

**Accept. Notif.:** Jan. 8, 2014

**Manuscript Due:** Jan. 26, 2014