



# IMS2017 5G SUMMIT: DAY 1



13:00–16:30 | Monday, 5 June 2017  
Hawai'i Convention Center: 311

IEEE MTT-S and IEEE ComSoc are offering a special joint 5G Summit with speakers covering both the system and hardware expertise for the upcoming 5G Standard. IMS2017 is providing a unique platform for industry leaders, innovators, and researchers from the industrial and academic community to collaborate and exchange ideas in this emerging technology that may help in driving the standards and rapid deployment.

## 13:00–13:05 | Welcome Address and 5G Summit Overview

*Debabani Choudhury, Intel Labs*

## 13:05–13:35 | Keynote: Fog Computing, its Applications in Industrial IoT, and its Implications for the Future of 5G

*Keynote Speaker: Flavio Bonomi, Nebbiolotech*

## 13:35–13:55 | 5G: New Spectrum, More Security and Opportunities for New Ideas

*Henning Schulzrinne, FCC-CTO / Columbia University*

## 13:55–14:15 | DOCOMO's 5G Trials Using Variety of Spectrum Bands

*Yoshihisa Kishiyama, NTT-DOCOMO*

## 14:15–14:35 | Living on the Edge – How 5G is Going to Enable the Medical Internet of Things Big Time

*Christoph Thuemmler, Edinburgh Napier University*

## 14:35–14:45 | Coffee Break

## 14:45–14:50 | 5G Initiative Overview

*Ashutosh Dutta, IEEE 5G Initiative - Co-Chair / AT&T*

## 14:50–15:10 | 5G Journey: Path Forward

*Vida Ilderem, Intel Labs*

## 15:10–15:30 | Channel Modeling for 5G mmW Systems

*Andreas F. Molisch, University of Southern California*

## 15:30–15:50 | Full Duplex Wireless: From Fundamental Physics and Integrated Circuits to Complex Systems and Networking

*Harish Krishnaswamy, Columbia University*

## 15:50–16:30 | Panel Session: 5G Start Up Ecosystem – Network to Components

*Moderator: Joy Laskar, Maja Systems*

*Panelists: Nitin Jain, Anokiwave; Khurram Sheikh, Kwikbit; Farooq Khan, PHAZR*

## 16:30 (Adjourn) | REMEMBER TO ATTEND THE IMS PLENARY SESSION AND WELCOME RECEPTION

The IMS Plenary Session and Welcome Reception will be held Monday night at the Hilton Hawaiian Village (see p. 11 for details)



## IMS2017 5G SUMMIT: DAY 2



13:00–16:30 | Tuesday, 6 June 2017  
Hawai'i Convention Center: 311

**Organizers:** Debabani Choudhury, *Intel Labs*; Doug Zuckerman, *Vencore Labs*; Ashutosh Dutta, *AT&T*; Tim LaRocca, *Northrop Grumman Aerospace Systems*; Joy Laskar, *Maja Systems*

### 13:00–13:05 | Welcome and Overview on Day 2

Doug Zuckerman, *IEEE COMSOC*

### 13:05–13:35 | Keynote: Emerging Research Tracks in Massive MIMO

Keynote Speaker: Arogyaswami Paulraj, *Stanford University*

### 13:35–13:55 | Massive MIMO in 3GPP: from LTE to New Radio

Amitava Ghosh, *Nokia Bell Labs*

### 13:55–14:15 | Vehicle-to-X Communication for 5G – A Killer Application of Millimeter Wave

Robert Heath, *UT Austin*

### 14:15–14:35 | Advanced Multicarrier Waveforms for 5G and Beyond

Hanna Bogucka, *Poznan University of Technology*

### 14:35–14:45 | Coffee Break

### 14:45–14:50 | Standardization of 5G-Related Technologies in IEEE

Robert Fish, *IEEE ComSoc - VP Industry Standards and Activities / Princeton University*

### 14:50–15:10 | Low Complexity Reflector Antenna Array (RAA) Architecture

Ali Sadri, *Intel*

### 15:10–15:30 | RFIC/CMOS Technologies for 5G, mmW and Beyond

Ali Niknejad, *UC Berkeley*

### 15:30–15:50 | 5G Radio Design for Mobile Products

Kamal Sahota, *Qualcomm*

### 15:50–16:30 | Panel Session: 5G Test and Measurements

Moderator: Kate Remley, *NIST*

Panelists: Malcolm Robertson, *Keysight*; Jason White, *NI*; Chris Scholz, *Rohde Schwarz*; Jon Martens, *Anritsu*

### 16:30 (Adjourn) | REMEMBER TO ATTEND THE 5G EXECUTIVE FORUM AND RECEPTION

The 5G Executive Forum and Reception will be held Tuesday night, 17:00–19:00, in Room 311 (see p. 23 for details)