

Beat: Technology

## **The 5th ANNUAL BROOKLYN 5G SUMMIT Envisions New World of SUPER-FAST WIRELESS**

**April 24-26, 2018**

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**USPA NEWS** - Researchers, Policy Makers and Others in Academia and Industry will gather for the Fifth Anniversary of the Annual Brooklyn 5G Summit at New York University's Tandon School of Engineering. The Event, April 24-26, 2018, will explore Innovations in Products and Services for the Next Generation of Wireless Communications.

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The Summit, available via Livestream, is jointly organized by NYU WIRELESS and Nokia, and will explore 5G New Radio (the Backbone Wireless Standard for 5G) including 5G for Autonomous vehicles, 5G Cloud Technology, Phased-Array Antennas, the Latest Advances in Millimeter-Wave (mmWave) Hardware, and Network Automation with Artificial Intelligence (AI). The Event features leaders from Companies driving the Momentum for 5G, including Nokia, AT&T, Ericsson, Huawei, National Instruments, Qualcomm, Verizon, and InterDigital ; companies such as BMW, Toyota and Bosch that are laying the Groundwork for 5G-Enabled Products ; and the Federal Communications Commission (FCC) and the National Science Foundation.

- 5G "" Ready for Takeoff

Theodore (Ted) S. Rappaport, the Ernst Weber/David Lee Professor of Electrical Engineering at NYU Tandon, and Amitava Ghosh, who directs the Radio Interface Group at Nokia Bell Labs, launched the Brooklyn 5G Summit in 2014. In that year the Number of Mobile-Connected Devices first exceeded the World's Population, and Growth in Demand has only increased since then. By 2021 more than Three-Quarters of the World's Mobile Data Traffic will be Video, a 9-Fold Increase from 2016, and by 2020, Experts predict there will be Some 20 Billion IoT (Internet of Things) Devices Worldwide.

NYU WIRELESS, part of NYU Tandon's Department of Electrical and Computer Engineering, is located in the Hub of Brooklyn's Tech Triangle (a Globally Recognized Hotbed of Wireless Research, Game Development, Green Tech, and more) and is helping establish Brooklyn's Innovation Coastline. Rappaport founded the Center in 2012 soon after arriving at what was then called Brooklyn Polytechnic from the University of Texas at Austin. Now under the Direction of NYU Tandon Professor of Electrical and Computer Engineering Sundeep Rangan, the Center is keeping a Steady Drumbeat of Innovation and Research, including :

\* A project with the Austin, Texas Fire Department to develop and test mmWave technology for First Responders that will support High-Definition Images from Drones, Ambulances, and from Robots in Environments Too Dangerous for Humans, all in Real Time.

\* COSMOS, a Multi-Institute Collaboration for a Square-Mile 5G Test Bed in Upper-Manhattan, a Project supported by a \$22.5 million Grant from the National Science Foundation that will allow Researchers to test some of the Biggest Promises of 5G, including Applications such as VR/AR and Autonomous Vehicles.

\* NYU WIRELESS' Pioneering Research is guiding the FCC's and Industry's Drive to lay the Groundwork for 5G, including last year's Spectrum Frontiers Proposal. The Center also helped test, debug, and provide Feedback on a New FCC Portal that streamlines the Experimental Bandwidth Licensing Process (the Center was the First Applicant to receive a Program Experimental License through the Portal).

- In 2018, NYU WIRELESS Industry Affiliates such as Nokia begin Deployment of 5G Networks in the United States and beyond :

\* Nokia and T-Mobile this year begin roll-out of a Nationwide 5G Multi-Band Network in the United States using the Commercial Nokia 5G solution, completing the Deployment during 2020.

\* AT&T will launch Mobile 5G to Customers in a Dozen Cities by the end of this year.

\* Verizon, which recently opened a 5G-Enabled Open Innovation Lab in New York to cultivate Startups and Innovations, aims to have

5G Networks deployed in up to five U.S. Markets by year's end, starting with Sacramento, California.

\* Qualcomm's New Snapdragon X50 5G Modem will drive 5G New Radio (NR) Trials Worldwide by Numerous Carriers, including in the mmWave Spectrum Bands.

\* National Instruments this year launches the First 5G NR Field Trials for 28GHz with Samsung.

This year's Summit will include Presentations by Industry Leaders, such as Marc Rouanne, President of Nokia Mobile Networks; and Melissa Arnoldi, President, Technology & Operations, AT&T Communications.

- NYU WIRELESS Demonstrations include :

\* An end-to-end mmWave Cellular Simulation Platform.

\* Massive MIMO and mmWave Channel Emulation, a Pioneering, Cost-Effective Programmable Channel Emulator for High Bandwidth, Large Antenna Array Systems.

\* A Demonstration of High Quality Virtual Reality Streaming via a 5G mmWave Channel.

\* A mmWave Live Demonstration showcasing the Performance of a Gigabits-Per-Second-Capable System, operating both at Millimeter-Wave and Sub-6 GHz Frequencies.

SOURCE : NYU Tandon School of Engineering

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