

11th Global Symposium on Millimeter Waves (GSMM) 2018

May 22–24, 2018 Boulder, Colorado, USA



Call for Participation

Conference Objectives

The main theme of the GSMM2018 is *Millimeter-wave Propagation: Hardware, Measurements and Systems*. It covers millimeter-wave and THz devices, circuits, systems, and applications, with a special focus on mmWave propagation. Highlights include:

- Keynote speakers Gabriel Rebeiz (UCSD), Sorin Voinigescu (Univ. Toronto), Noriharu Suematsu (Tohoku Univ.), Christopher L. Holloway (NIST), Thomas Kürner (TU Braunschweig) and Quan Xue (S. China Univ. Technology)
- Two parallel tracks of technical sessions, posters, an exhibition, and a tour of NIST with a chance for Q&A
- Two lunch-and-learn sessions provided by Keysight+Ball Aerospace and ETS-Lindgren on measurement challenges for 5G

New for 2017: 5G Hardware Summit

Building on successful collaborative summits initiated by the IEEE Communications Society, we are pleased to announce the first 5G Summit focused on 5G hardware. Speakers include Dev Palmer (Lockheed Martin), Dimitrios Peroulis (Purdue), Peter Asbeck (UCSD), Antti Räisänen (Aalto University), Farshid Aryanfar (Compound Waves), Pete Moosbrugger (Ball), Ivan Seskar (Rutgers), and Roger Nichols (Keysight). A panel session led by Dylan Williams (NIST) explores the trade-offs between bandwidth, efficiency, battery life, complexity, cost in the quest for mobile 5G handsets.

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Topics

Millimeter-Wave Antennas and Passive Devices

Antennas and Propagation; Waveguides and Transmission Lines; Filters; Multiple-Element Antenna Arrays; Materials, Substrates, and Packaging

Millimeter-Wave and THz Communications

5G Wireless Communications; Wireless Channel Measurements and Modeling; Over-the-Air (OTA) Test Methods; Wireless LANs and PANs; Backhaul for 4G/5G Small Cells; Satellite Communications

Millimeter-Wave and THz Sensing

Instruments for Radio Astronomy; Radar, Remote Sensing, and Imaging; Systems and Subsystems

Sub-Millimeter-Wave and THz Technologies

Devices and Systems; Photonic Devices and Systems; Integration Technologies

Millimeter-Wave Active Devices and ICs

Devices: MMICs, PAs, LNAs, Mixers, Multipliers, VCOs
Technologies: HEMT, CMOS, HBT, GaN, SiGe, Schottky, HBV
On-Wafer and Advanced Measurements

Emerging Technologies and Applications

Internet-of-Things (IoT) and Machine-to-Machine (M2M); Biomedical Applications; Wireless Power Transfer (WPT); Nano-Electronic Devices; Automotive and Industrial Applications; New Materials

5G Millimeter-Wave Channel Model Alliance

We would like to extend our invitation for participation in the 5G mmWave Channel Model Alliance face-to-face meeting on Friday, May 25th 2018.

The 5G mm-Wave Channel Model Alliance is:

- an international, open, collaborative research effort that supports the fundamental characterization of mm-wave channels
- comprised of 144 participants from 39 universities, 9 government agencies and 24 companies with an interest in this important area
- sponsored by the Communications Technology Research Laboratory within the National Institute of Standards and Technology

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