

Call for Papers

IEEE INFOCOM 2017 Workshop on 5G New Radio (NR) Technologies Atlanta, GA, USA, May 1, 2017

<http://infocom2017.ieee-infocom.org/workshop/5g-beyond-enabling-technologies-and-applications>

As the dust around 4G begins to settle, attention is now turning towards the 5th generation (5G) and beyond technologies. The provisioning of higher end-user data rates over the Internet has been the key driving force for the development and evolution of 4G wireless technologies. However, the drivers for 5G and beyond are likely to be much more diverse. First, enhanced mobile broadband with its corresponding demand for higher data rates will continue to be the quest. Further, new traffic types and data services are emerging, notably machine-to-machine communications to support concepts such as the smart homes and cities. In addition, future 5G and beyond networks should be much more energy-efficient than current 4G networks. To this end, 3GPP is defining **5G New Radio (NR)** that will scale to address diverse 5G services and devices, pushing many limits to deliver not only significantly higher performance but also unprecedented levels of cost, power, and deployment efficiencies.

The goal of this workshop is to provide a forum where diverse group of researchers can share the latest research insights, present key and emerging results on the innovative 5G NR technologies and designs, and identify new challenges and opportunities.

Potential **Topics of interest** include, but are not limited to:

- Waveform design and multiple access for 5G NR
- Massive MIMO, 3D MIMO techniques for 5G NR
- mmWave communications for 5G NR
- Spectrum sharing management for 5G NR
- Advanced channel coding for 5G NR
- Channel modeling for 5G NR
- Protocol design and resource allocation techniques for 5G NR
- Interference management and interference mitigation techniques for 5G NR
- Enabling mission-critical services and techniques for 5G NR
- Massive Internet-of-Things (IoT) for 5G NR
- New network architecture and framework design for 5G NR

Important Dates

- Paper Submission: **January 17th, 2017**
- Camera Ready: March 12th, 2017
- Author Notification: February 22nd, 2017
- Workshop Day: May 1st, 2017

Submission Guidelines

The IEEE INFOCOM 2017 workshop on 5G New Radio (NR) Technologies calls for original and unpublished papers no longer than 6 pages. The reviews will be single blind. The manuscripts should be formatted in standard IEEE camera-ready format (double-column, 10-pt font) and be submitted as PDF files (formatted for 8.5x11 inch paper). Manuscripts should be submitted as PDF files through the [EDAS](https://edas.info/newPaper.php?c=23029&track=82603) website at: (<https://edas.info/newPaper.php?c=23029&track=82603>).

Steering Committee

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