

Call for Papers for a workshop on

“From 4G to Beyond 5G (B5G) Systems: expectations, realities and disruptions”

Original and scholarly papers are invited for publication and presentation at the workshop on the theme “From 4G to Beyond 5G (B5G) Systems: expectations, realities and disruptions.” This is a special workshop designed to provide a single platform to bring together industry, regulators and academia to deliberate the near-term commercial realities and the potential to make a revolutionary impact through advance research and innovation.

The workshop is organized to address the following topics concerning the gap between the near-term commercial deployments of LTE-A, LTE-A Pro and the longer-term vision of 5G and Beyond systems.

(1) Has 4G (including LTE Adv Pro) truly exhausted its potential to meet most of the requirements of the 5G wireless systems and whether is it soon expected to reach the level of maturity in deployment so as to justify yet another new generation of wireless systems (such as 5G) which would mean significant capital expenditure by the mobile operators?

(2) User studies to validate whether 4G (LTE/LTE-A Pro) is not adequate to meet the requirements of the new use cases being defined for the 5G system to a very large extent.

(3) Update on the 5G standards and product developments to validate whether the deployment schedule of 2020 could be realistically met and whether there are compelling business cases to justify the investments in 5G systems.

(4) Interworking of 5G systems with the present-day wireless systems (3G to LTE-A Pro) and migration strategies to ensure that the evolved system would continue to work seamlessly and in a manner that is profitable for different actors in the value chain.

(5) Technology differentiators and research advances from 4G to 5G systems and beyond.

(6) Is 5G disruptive enough to justify investments by the operators or 4G would continue to evolve beyond LTE-A Pro until a new 6G standard appears truly disruptive in its approach with new internet protocols, quantum computing, RF energy harvesting, High-Altitude Platforms (HAPS), massive MIMO, cooperative networks, Artificial Intelligence (AI) techniques etc.?

In short, this workshop invites papers to critically examine where the wireless and mobile technologies have been, where they are, and what needs to happen to match the expectations with realities and where are the gaps to fulfill those promises as we develop successive generations of wireless standards.

Papers should follow the IEEE conference template, http://www.ieee.org/conferences_events/conferences/publishing/templates.html, and should be limited to 5 pages only. In addition to submitting the papers to the IEEE EDAS system, they should also be sent to the conference workshop organizers – Sudhir.dixit@ieee.org.

Important dates

Paper submission: 22 May 2017. Reviews and decisions completed by 5 June 2017. Final papers due: 26 June 2017.

Workshop organizers

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