

Call for Paper
Workshop
From Evolution to Revolution, a roadmap for beyond 5G
An ICT Beyond 5G Cluster workshop

ICT Beyond 5G Cluster is delighted to announce the Workshop from Evolution to Revolution, a roadmap for beyond 5G.

Scope

5G is not yet fully deployed, but its initial definition based on challenging targets, e.g. 1000 k connections per km², billions of IOTs, 10s Gb/s connections, 1 ms latency, has been surpassed by unpredictable and new scenarios stemmed from the fast changes of the modern world. 5G is more a new environment rather than a distribution modality of internet. As soon as 5G started, its transformation and mutation are continuously reshaping it. It was an evolution, now it is a revolution.

As all the revolutions, enthusiasms, actions, ideas, achievements flourish every day. The question is: what after the revolution? This workshop takes energy from a formidable congregation of leading scientists, members of the first ever cluster of EC Horizon 2020 projects. The ICT Beyond 5G Cluster is formed by the successful projects of the call ICT 09, worth more than €20M. Seven projects complementary and visionary funded to respond to the 5G revolution.

The workshop will explore new streams beyond 5G by invited speakers, by discussing the latest results of the H2020 projects members of the cluster and by soliciting visionary contributions from the 5G community.

The aim is to stimulate a collective brainstorming to predict where the revolution is heading, what the technology can achieve and what impact will be on future deployment, economy and society. At the end of each talk, instead of the typical Q&A, audience will be asked to extract key concepts and noted on a virtual board. Three focus groups in three different key areas will collate key words and concepts with the aim to shape future visions of beyond 5G.

A panel session will challenge those visions to converge in one or more "beyond 5G" revolutionary scenarios and landscapes.

Topics

Track 1 5G Evolution

- Mm-wave / THz networks
- MIMO and beyond
- Deployment scenario
- Photonics and wireless integration

Track 2 5G Revolution

- Verticals
- Architectures
- Photonics and wireless systems
- Physical and virtual layers

General Chairs

Claudio Paoloni, Lancaster University, UK

General co-Chairs

Angeliki Alexiou, University of Piraeus, Greece

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Paper Submission

Deadline for paper submission: **May 31, 2019**

Acceptance Notification: June 30, 2019

Camera-Ready Submission: July 31, 2019

Accepted and presented paper will be added to IEEE

Xplore and the conference proceedings

Submission at.

<https://edas.info/N25426>