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Please select Track Preference as **EDGEIoT**

Special track

EDGEIoT: Edge and IoT Application Deployment for 5G Networks

Chair and Coordinator

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along with

The 5th Generation of Cellular Networks (5G) has finally arrived. Over the current year, it is expected to see 5G trial networks spin up at isolated parts around the globe. This track focuses two crucial end-user applications which depend on and will drive 5G adoption, namely, Edge Computing and Internet of Things (IoT). These two are expected to revolutionize 5G, not only in terms of radio technology or standards, but also in the way they impact the lives of the users.

5G is not simply a way of increasing the bit-rates and capacity of the existing cellular networks; they have built from the ground up to handle radical new uses; high-performance mobile computing, tele-medicine and ultra-responsive media applications, tactile Internet, high performance Industrial IoT for smart cities, smart transportation and smart management of natural resources. All of these require a new model of application development; latency sensitive, agile and optimally architected to make full use of the 5G features, such as ultra-low-latency computation, network slicing, support for edge deployment of applications and the next generation core network.

The objective of this track is, then, twofold. In the first, we would like to explore how applications for edge-computing and IoT are going to be architected and deployed and how they will interact with the underlying 5G cellular network. In the second, we would like to understand how the underlying frameworks and the network itself will evolve to support the deployment and operations of the expected new wave of applications specifically being designed to deliver true 'computing as a service' to users.

Topics include, but not limited to:

- Developing standards for Edge Computing and IoT in 5G.
- Compelling and novel applications/frameworks using edge-computing and IoT
- Novel architectures for 5G core networks to support Edge Computing and IoT deployment
- Challenges and solutions for ultra-responsive applications.
- Network management challenges for edge computing and IoT cellular networks.
- Microservice based applications; from the edge to the cloud
- Deployment and application of AI (Artifical Intelligence) in the 5th generation network.
- Application of networking technologies, such as SDN (Software Defined Networks) and Network slicing

Important Datelines
- Inform the Chair (see Contacts below): as soon as you decided to contribute
Submission: June 2, 2019
Notification: June 22 2019
Registration: July 1, 2019
Camera-ready: July 1, 2019

Contribution Types
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
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- Demos: two pages [posted on www.iaria.org]

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

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- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.org
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Registration
- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at http://www.iaria.org/registration.html

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