

# Call for Contributions

## Submission:

**1. Inform the Chair:** with the Title of your Contribution

**2. Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=COCORA+2018+Special>

Please select Track Preference as **TechTo5G**

## Special track

### TechTo5G: Technology Enablers towards 5G

**Chair and Coordinator:** Dr. Faouzi Bouali, Research Fellow, 5G Innovation Centre (5GIC), University of Surrey, United Kingdom  
[f.bouali@surrey.ac.uk](mailto:f.bouali@surrey.ac.uk)

along with

**COCORA 2018**, The Eighth International Conference on Advances in Cognitive Radio  
April 22, 2018 to April 26, 2018 - Athens, Greece  
<http://www.iaria.org/conferences2018/COCORA18.html>

The fifth generation (5G) of wireless networks is expected to support a multiplicity of applications that go far beyond ultra-broadband. The most demanding use cases involve massive machine type communication (mMTC), which refers to the connectivity of large numbers of low-cost and low-energy devices and ultra-reliable low-latency communication (URLLC), which denotes communication with stringent requirements in terms of latency, reliability and availability.

To meet these challenging requirements, three main dimensions need to be further developed, namely (1) Exploitation of new spectrum bands (e.g., mm-wave), (2) Ultra-densification and interworking of existing technologies in heterogeneous networks (HetNets) and (3) Optimization of spectrum usage through innovative spectrum sharing models and enhanced radio environmental maps (REMs). To leverage all these dimensions, innovative architectures with higher degree of flexibility, e.g., control/data separation, virtualization and network slicing, are strongly recommended.

**Prospective authors** are invited to submit original papers on topics including, but not limited to:

- Ultra-broadband
- Massive machine type communication (mMTC)
- Ultra-reliable low-latency communication (URLLC)
- Advanced radio resource management
- Mm-wave access and backhauling
- Ultra-densification and heterogeneous networks (HetNets)
- Carrier/spectrum aggregation (e.g., licensed assisted access (LAA))
- WLAN/Cellular integration (e.g., LWA and LWIP)
- Enhanced spectrum sharing models
- Advanced radio environmental maps (REMs)
- Innovative architectures for next-generation networks
- Wireless network virtualization

- Control/Data plane separation
- Network slicing

## Important Datelines

- Inform the Chairs: As soon as you decided to contribute
- Submission: ~~January 17, 2018~~ **February 28, 2018**
- Notification: ~~February 22, 2018~~ **March 5, 2018**
- Registration: ~~March 8, 2018~~ **March 10, 2018**
- Camera ready: ~~March 15, 2018~~ **March 20, 2018**

*Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.*

## 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.iaia.org](http://www.iaia.org)]
- Presentations: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Demos: two pages [posted on [www.iaia.org](http://www.iaia.org)]

## Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

## Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

## Paper Submission

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=COCORA+2018+Special>

Please select Track Preference as **TechTo5G**

## 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.iaia.org/registration.html>

## Contacts

Chair: Faouzi Bouali, [f.bouali@surrey.ac.uk](mailto:f.bouali@surrey.ac.uk)

COCORA Logistics: [steve@iaia.org](mailto:steve@iaia.org)