Call for Contributions

Inform the Chair: with the Title of your Contribution
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Please select Track Preference as **MEC&MMWAVE**

Special track

MEC&MMWAVE

Mobile Edge Computing and Millimeter Waves as Key Technology Enablers for 5G Systems

Chair and Coordinator:

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along with
COCORA 2017, April 23 - 27, 2017 - Venice, Italy
The Seventh International Conference on Advances in Cognitive Radio
http://www.iaria.org/conferences2017/COCORA17.html

The Mobile Edge Computing (MEC) paradigm introduces numerous benefits to the communication networks, just to name a few end-to-end latency reduction, backhaul traffic diminution, terminals battery life improvement via offloading and caching mechanisms. MEC is being discussed since a while in the research community and starts appearing in first broad commercial deployment worldwide, under the 4G networks umbrella. Looking towards 5G, the additional benefits deriving from the synergy of MEC and 5G features is still an open research question though.

Millimeter waves technologies (mmWave) are available in the market since several years, especially in wireless backhaul connections. Recently, mmWave appears more and more as an appealing technology also for the access part of mobile networks. Standards bodies (3GPP) have just started to define the first set of 5G features and mmWave is among them.

Both MEC and mmWave will play a major role in achieving an effective deployment of 5G systems, therefore the special sessions under the MEC&MMWAVE track encourages the submission of contributions in both areas. Latest research results, but also standards-relevant simulations, business model analysis and first demonstrations are in focus in this special track. Particularly, well-received will be contributions showing synergies and co-working among MEC and mmWaves technologies.

In this context, the topics of interest include but are not limited to:

- MEC network architecture and protocols
- mmWave network architecture and protocols
- MEC-related business model analysis
- mmwave-related business model analysis
- Theoretical limits and trends of caching in mmWave networks
- Fundamental tradeoffs in MEC-empowered mmWave networks
- Coded Caching in mmWave Networks
- Edge Caching techniques for 5G

- Wireless Content Caching at mobile handset
- Computational Resource allocation in Wireless Caching Networks
- Joint radio and computational resource optimization in MEC-empowered mmWave networks
- MEC resources allocation and management
- MEC simulators, demonstrators and platforms
- mmWave simulators, demonstrators and platforms
- Challenges and opportunities for MEC and mmWave technologies
- Standardization of MEC and mmWave technologies

Important Datelines

- Submission: January 15
- Notification with comments for camera-ready: February 20
- Registration: March 5
- Camera ready: March 15

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]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- 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

Publications

- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.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

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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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