

Call for Contributions

Inform the Chair: with the Title of your Contribution

Submission URL: <https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=AICT+2017+Special>

Please select Track Preference as **ESTDETDEC**

Special track

ESTDETDEC: Channel Estimation, Detection and Decoding

Chair and Coordinator

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along with

AICT 2017, June 25 - 29, 2017- Venice, Italy

The Thirteenth Advanced International Conference on Telecommunications

<http://www.aria.org/conferences2017/AICT17.html>

Serious achievements in the field of creating digital devices made it possible the implementation of algorithms and systems that were considered unfeasible until the recent time. Modern communication systems and especially the systems of radiocommunication are good evidence in favor of this statement. Traditionally channel estimation, detection and decoding algorithms play critical role in the development of current and future mobile communication. The emerging of 5G gave rise to implementation of new technologies such as non-orthogonal multiple access, all-spectrum access, massive MIMO, new waveforms, new channel coding systems, etc. Also, new usage scenarios enhanced mobile broadband (eMBB), massive machine-type communications (mMTC), ultra-reliable low latency communications (URLLC) must be taken in account. This poses new requirements to receiver algorithms.

The track considers new channel estimation, detection and decoding algorithms suitable for using in 5G new radio (NR) and beyond.

Topics include, but not limited to:

- Channel estimation for NR and beyond;
- Detection algorithms suitable for new waveforms and non-orthogonal multiple access;
- Detection algorithms for massive MIMO and mmWaves;
- Phase noise compensation algorithms;
- Decoding algorithms (including decoding of flexible LDPC codes and polar codes);
- Detection and decoding algorithms for eMBB, mMTC and URLLC.

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: ~~March 5~~ **May 17**
- Notification with comments for camera-ready: ~~April 5~~ **May 24**
- Registration: ~~April 20~~ **May 31**
- Camera ready: ~~May 12~~ **May 31**

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]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on 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=AICT+2017+Special>

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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.iaia.org/registration.html>

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