

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=SIGNAL+2018+Special>

Please select Track Preference as **EDSA**

Special track

EDSA: Event-Driven Signal Applications

Chair and Coordinator

Dr. Laurent Fesquet, Associate Professor, TIMA laboratory, Grenoble, France

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along with

SIGNAL 2018, The Third International Conference on Advances in Signal, Image and Video Processing

May 20, 2018 to May 24, 2018 - Nice, France

<http://www.aria.org/conferences2018/SIGNAL18.html>

Today, our digital society exchanges data flows as never it has been the case in the past. The amount of data is incredibly large and the future promises data exchanges between humans and also technological equipment such as robots, cars, planes, etc. We are just opening the doors of the Internet of Things (IoT). This data orgy will waste a lot of energy. Indeed, Internet and the so-called “new technologies” already consume about 10% of the electrical power produced in the world. Even if it already exists design solutions to enhance the energetic performances of the electronic systems, it appears more and more relevant to reduce the amount of data to go further. Rather than sampling as a fixed rate, non-uniform sampling and event detection appear as relevant solutions to reduce the amount of data produced by the analog-to-digital conversion. Indeed, useless data produce more computation, more storage, more communications and also more power consumption. Disregarding the Shannon theory, we can discover new analog-to-digital conversions and sampling processing techniques.

This special track targets all the signal processing techniques and applications exploring the event-based strategy covering the event-based detection, non-uniform sampling and the signal processing techniques as well, which can be applied with simple or complex sensors such as image sensors. This track welcomes all scientists and engineers who employ non-conventional sampling and signal processing paradigms to drastically reduce the useless data or power consumption.

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

- Non-uniform sampling and processing
- Non-Shannon Analog-to-digital conversion
- Event-detection, event-sensors and electronics
- Event-based control
- Event-Driven- circuits and applications

Important Datelines

- Inform the Chairs: As soon as you decided to contribute
- Submission: ~~February 7, 2018~~ **March 28, 2018**
- Notification: ~~March 7, 2018~~ **April 5, 2018**
- Registration: ~~March 21, 2018~~ **April 10, 2018**
- Camera ready: ~~April 2, 2018~~ **April 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.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>

Contacts

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