



## Call for Papers

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## 3rd Inter. Conf. on Event-based Control, Communication, & Signal Processing

Funchal, Madeira, Portugal May 24-26, 2017  
Call for Paper to Special Session

## Event-based Image Sensors and Processing

### Special Session Organizers:

**Amani Darwish**

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**Laurent Fesquet**

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### Aim and scope:

Pushing the boundaries of the image capture and image processing field, like ultimate image quality, ultra-high dynamic range and high speed image acquisition, cannot be done using the conventional image systems. Since the breakthrough of the digital image sensors, the classical image sensor architectures as well as the conventional vision systems had been suffering from several limitations like high power consumption, inefficient reading strategies, low frame rate, low light performance and limited dynamic range. In contrast, the event-driven image sensors and the event-based image processing offer solutions for surpassing these traditional limitations and deliver an efficient bio-inspired functioning. Over the past years, the event-driven vision system community has been very dynamic. The latter confirms the need, nay the urgency, to rethink the image sensors, mainly at this time where cameras are used everywhere!

At this special session, we propose to present the latest research on the asynchronous and event-driven image sensors and image systems as well as aspects on event-based image processing.

### Topics within the scope of the Special Session include but are not limited to:

- Event-based digital read-out architecture
- Event-based image processing
- Event-based data sampling scheme
- Event-based reading strategies for image sensors
- Frameless event-based image systems
- Event-driven vision sensing

**Submission of Papers:** Manuscripts must be submitted electronically in PDF format, according to the instructions contained in the Conference web site. Contributions must contain original unpublished work. Papers that have been concurrently submitted to other conferences or journals (double submissions) will be automatically rejected. Two types of submissions are solicited: Long Papers - 8 double-column pages. Work-in-Progress Papers - limited to 4 double-column pages. For further details, please consult the conference web pages.

**Paper Acceptance:** Each accepted paper must be presented at the conference by one of the authors. The final manuscript must be accompanied by a registration form and a registration fee payment proof. All conference attendees, including authors and session chairpersons, must pay the conference registration fee and their travel expenses.

**Conference Format:** The conference will comprise multi-track sessions for regular papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations; work-in-progress (WIP) sessions; panel discussions on the state-of-the-art and emerging trends, involving leading experts from industry and academia; and public discussion sessions moderated by leading experts in the field of industrial automation systems.

**No-show Policy:** The EBCCSP2017 Organizing Committee reserves the right to exclude a paper from distribution after the conference at IEEE Xplore if the paper is not presented at the conference.

### Author's Schedule:

Regular and special sessions papers		Work-in-progress papers	
Proposals for special sessions due	January 29, 2017	Submission deadline:	April 11, 2017
Submission deadline	February 26, 2017	Acceptance notification:	April 18, 2017
Acceptance notification	April 9, 2017	Deadline for final manuscripts:	April 23, 2017
Deadline for final manuscripts	April 23, 2017		

<http://www.ebccsp2017.org>