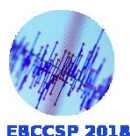


Perpignan, France

June 27-29, 2018

4th International Conference on Event-based Control, Communication, & Signal Processing EBCCSP 2018



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Call for Papers

Special Session on Event-based Electronic Systems

Special Session Organizers:

Laurent Fesquet

TIMA laboratory, Grenoble, France
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Today, our digital life produces huge data streams and requires unbelievable storage capacities. The amount of data is incredibly large and the future promises new data exchanges not only between humans but, also, between technological equipment such as robots, cars, planes, etc. We are just starting the story of the everyday objects endowed by network connectivity, autonomy and embedding processing capabilities. Even if they are small and smart, the Things of the Internet (ToI) consume a lot of energy because they require large network infrastructure, data center and are counted in tenth of billions. 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 save energy. Rather than sampling at a fixed rate, non-uniform sampling and event detection appear as relevant solutions to limit the amount of data produced by the analog-to-digital conversion. Indeed, useless data produce more computation, more storage, more communications and thus more power consumption. Similarly, the clock synchronization, even if it is a convenient way to design electronic systems, is a source of energy waste. This is mitigated by several techniques such as gated clocks but an event-driven circuit design is probably more natural. Event-based techniques for sampling and processing signals are a chance for low-power electronic systems. This special track targets all the techniques exploring the event-based strategy in the field of the electronic systems and covers event-based detection, non-uniform analog-to-digital conversion and processing, event-driven circuits and sensors. This track welcomes all scientists and engineers who employ the event-based paradigm to drastically reduce the power consumption of their electronic systems.

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. Papers are to be submitted electronically in PDF format. 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.

Author's Schedule:

Regular and special sessions papers		Work-in-progress papers	
Proposals for special sessions due	February 18, 2018	Submission deadline	April 30, 2018
Submission deadline	April 30, 2018	Acceptance notification	May 14, 2018
Acceptance notification	May 14, 2018	Deadline for final manuscripts	May 20, 2018
Deadline for final manuscripts	May 20, 2018		

<http://www.ebccsp2018.org>