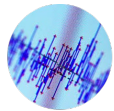


Perpignan, France

June 27-29, 2018

4th Inter. Conference on Event-based Control, Communication, & Signal Processing



EBC CSP 2018

Call for Papers

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LAAS and University of Paul Sabatier,
Toulouse, France (retired)
Monique Polit
PROMES and University of Perpignan, France
(retired)

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Sponsors:



Aim: The aim of the EBC CSP 2018 conference is to bring together researchers and practitioners from the industry and academia and provide them with a platform to report on recent advances and developments in the event-based systems and architectures applied in wide spectrum of engineering disciplines including control, communication and signal processing.

Solicited Papers: Research papers reporting on new developments in technological sciences. Industry and development papers reporting on actual developments of technology, products, systems and solutions. Tutorial and survey papers. Work-in-progress papers. In addition, EBC CSP 2018 solicits special session proposals to stimulate in-depth discussions in special areas relevant to the conference theme. Please consult the conference web page for more details.

Topics include, but are not limited to:

Event-based control & systems: Event-based and self-triggered control, Continuous and periodic event-triggered control, State-feedback and output-based event-triggered control, Event-based PI and PID controllers, Event-based control over networks, Decentralized event-triggered control, Distributed event-triggered control, Distributed event-triggered control for multi-agent systems, Event-based state estimation, Control systems with Lebesgue sampling, Lapunov sampling for event-driven controllers, Event-based intermittent control, Generalized predictive event-triggered control, Discrete-event systems
Event-based communication, computing & systems: Event-based and time-triggered communication architectures, Event-based protocols, Flexible time-triggered protocols and architectures, Event-based fieldbuses, Event-based real-time systems Controller Area Networks (CAN), Complex events detection, Event-based wireless sensor and control systems, Event-triggered and self-triggered real-time task scheduling, Performance evaluation of event-based communication systems, Event-based and adaptive sampling, Cost-aware sampling, Adaptive sampling and sleep mode, Intelligent sampling, Design of event-based sampling criteria, Event-based spatial and spatio-temporal sampling, Intelligent event-driven sensors, Send-on-delta data reporting strategy, Event-based communication systems modeling and design, Event-based control applications Programming Languages, Software Engineering, Security & Privacy, Big Data & Data Management, Intelligent Systems, Distributed & Parallel Computing, Cloud Computing
Event-based signal processing & systems: Event-driven signal processing chain, Event-driven signal processing theory, Event-driven data acquisition, Event-driven analog-to-digital conversion techniques, Adaptive-rate analog-to-digital conversion, Level-crossing analog-to-digital converters, Event-driven filters, Event-driven adaptive filters, Clockless and self-timed circuits and architectures, Spectral analysis of event-triggered sampled data, Asynchronous Delta modulation, Asynchronous Delta modulator implementations, Event-based signal reconstruction methods, Event-based signal processing applications, Intelligent event-driven sensors, Continuous-time digital signal processing, Event-driven computing, Biologically-inspired event-driven systems, Spike-event generation, Event-driven visual attention, Event-driven vision sensing, Dynamic Vision Sensor (DVS) systems, Frame-free event-driven vision systems, Address-Event Representation (AER) protocol and interface, Event-driven convolution processors, Event-driven stereo vision
Discrete Event Systems: Formalisms and modeling methodologies: Petri nets, automata, statecharts, process algebras, max-plus algebra, queuing networks Control of discrete-event systems: supervisory control; real time control Performance evaluation, optimization, scheduling Diagnosis, fault detection, test, identification Hybrid systems Applications: manufacturing systems, communication protocols and systems, transportation systems, office and home automation, urban automation, smart grid, large-scale distributed systems, health care systems, software engineering Electronic Design Automation of software tools to support operation of large-scale distributed systems such as manufacturing systems, building automation, highway automation, urban automation Computer tools for DES modeling, synthesis, analysis

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.

No-show Policy: The EBC CSP 2018 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	February 18, 2018	Submission deadline:	April 30, 2018
Submission deadline	April 23, 2018	Acceptance notification:	May 14, 2018
Acceptance notification	May 14, 2018	Deadline for final manuscripts:	May 28, 2018
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Perpignan is the capital of the Pyrénées-Orientales department in southern France. Perpignan was the capital of the former province and County of Roussillon (Rosselló in Catalan) and continental capital of the Kingdom of Majorca in the 13th and 14th centuries. Located on the Mediterranean coast, 1.5 hours by TGV from Barcelona and 2 hours from Toulouse.

<http://www.ebccsp2018.org>

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