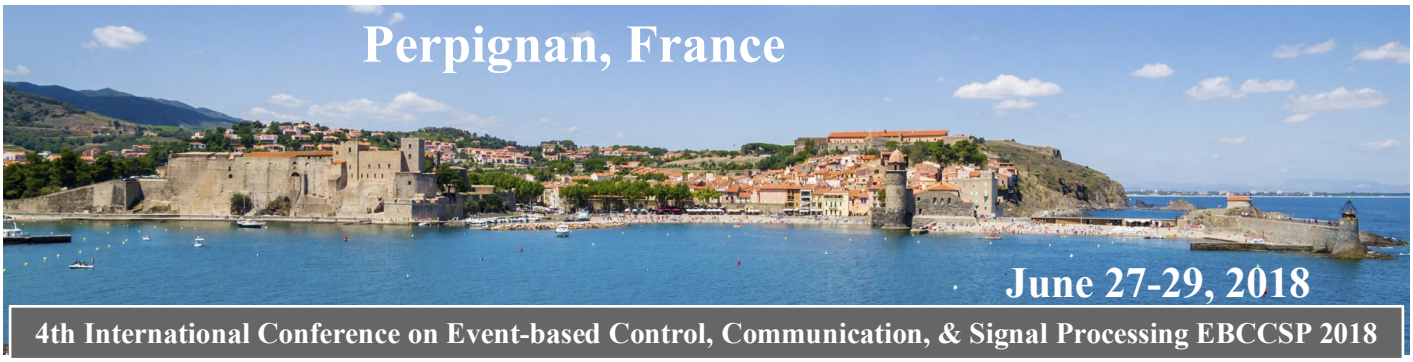

4th International Conference on Event-based Control, Communication, & Signal Processing EBCCSP 2018

EBCCSP 2018

Call for Papers

Special Session on

Mathematical Modeling of Event-Based Sampling

Special Session Organizers:

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This Special Session addresses fundamental differences between uniform and event-based sampling from a mathematical analysis point of view, and aims at approaches clarifying, tackling and overcoming challenges in this context.

Typical questions in this context are:

- Given some (topological or metric) structure of the input and the output space, respectively, are there any invariant properties that are preserved by the event-based sampling operation?
- Are we able to characterize such properties? In which sense, and under which conditions, e.g., metric spaces?
- What are pros and cons of signal reconstruction versus similarity reconstruction techniques from the point of view of robustness, flexibility, efficiency and computational costs?
- For which processing tasks do we really need a full signal reconstruction and under which conditions is it sufficient to rely on similarity recovery, and deduced concepts?

Suggested topics of interest include (but are not restricted to) the following:

- Event-based sampling operators and related function and sequence spaces
- Preserving properties of sampling operators, quasi-isometry and coarse embedding
- Quality measures for signal reconstruction and similarity recovery
- Stochastic and stability analysis
- Foundation of signal processing and pattern matching

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 Contributions must contain original unpublished work.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-oft-he-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*	March 25, 2018
Submission deadline	March 18, 2018	*Acceptance notification*	April 30, 2018
Acceptance notification	April 30, 2018	*Deadline for final manuscripts*	May 20, 2018
Deadline for final manuscripts	May 20, 2018		

http://www.ebccsp2018.org