



June 13-15, 2016
KRAKÓW

Honorary Chair

Tomasz Szmuc
AGH Univ. of Science & Technology,
Poland

General Co-Chairs

Tobi Delbruck
ETH Zurich,
Switzerland

Marek Miśkiewicz
AGH Univ. of Science & Technology,
Poland

Organizing Chair

Richard Zurawski
ISA Group, USA & AGH Univ. of
Science & Technology, Poland

Program Committee Co-Chairs

Antonio Visioli
University of Brescia, Italy

Laurent Fesquet
Grenoble Institute of Technology,
France

Work-in-Progress Chairs

Alberto Leva
Polytechnic University of Milan, Italy

Nicolas Marchand
CNRS-GIPSA-lab Grenoble, France

Special Session Co-Chairs

José Luis Guzmán Sánchez
University of Almeria, Spain

Sylvain Durand Chamontin
INSA Strasbourg & Icube,
France

Tutorial Chair

Piotr Augustyniak
AGH University of Science and
Technology, Poland

Call for Papers to Special Session SS02

Mathematical Modeling of Event-Based Systems

Special Session Organizers:

Brigitte Bidégaray-Fesquet, brigitte.bidegaray@imag.fr
Laboratoire Jean Kuntzmann, Grenoble, France

Bernhard A. Moser, bernhard.moser@scch.at
Software Competence Center Hagenberg, Scientific Head of Knowledge-
Based Vision Systems, Hagenberg, Austria

Aim and scope:

This Special Session is about the mathematical foundation of non-linear sampling processes that are triggered by signal-based conditions. Beyond the classical topic of signal reconstruction we also address the topic of similarity and pattern analysis of event-based signals. This view particularly raises fundamental mathematical issues and questions such as:

- 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?
- For which processing tasks do we really need a full signal reconstruction and under which conditions is it sufficient to rely on similarity reconstruction?
- What are pros and cons of signal reconstruction versus similarity reconstruction techniques from the point of view of robustness, flexibility, efficiency and computational costs?

Topics within the scope of the Special Session:

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

- Event-based sampling operators
- Function and sequence spaces
- Signal reconstruction
- Preserving properties of sampling operators
- Stability analysis of event-based sampling
- Metric and similarity analysis
- Stochastic analysis

Submission of Papers: The working language of the conference is English. The special session papers are limited to 8 double column pages in a font no smaller than 10-points. Manuscripts must be submitted electronically in PDF format, according to the instructions contained in the Conference web site.

Further Information: EBCCSP 2016 Conference Secretariat: Tel: + 48 12 617 3034, Fax: + 48 12 633 2398; Email: ebccsp16@agh.edu.pl

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.

No-show Policy: The EBCCSP 2016 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:

<i>Deadline for submission of special sessions papers:</i>	March 20, 2016
<i>Notification of acceptance of special sessions papers:</i>	April 10, 2016
<i>Final manuscripts due – special sessions:</i>	May 1, 2016

<http://www.ebccsp2016.org>