



June  
17-19, 2015

## KRAKOW

### Keynote Presentations

Panos Antsaklis  
University of Notre Dame, USA

Karl Henrik Johansson  
KTH Royal Institute of Technology, Sweden

Yannis Tsividis  
Columbia University, USA

### Plenary Presentations

Maurice Heemels  
Eindhoven University of Technology, The Netherlands

Marc Renaudin, TIEMPO, France

### Honorary Co-Chairs

Marek Florkowski  
ABB Krakow, Poland

Tadeusz Pisarkiewicz, AGH Univ. of Science & Technology, Poland

### General Co-Chair

Sebastian Dormido,  
UNED, Spain

Marek Miskowicz  
AGH Univ. of Science & Technology, Poland

### Organizing Chair

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

### Program Committee Co-Chairs

Ming Cao  
University of Groningen, The Netherlands

Laurent Fresquet  
Grenoble Institute of Technology, France

### Work-in-Progress Chair

Manuel Mazo  
TU Delft, The Netherlands

**Aim:** The aim of the 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, EBCCSP 2015 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 within the scope of the conference include:

#### 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, Lyapunov 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 spatiotemporal sampling, Intelligent sensors, Send-on-delta data reporting strategy, Event-based communication systems modeling and design, Event-based control applications

#### Event-based signal processing & systems

Event-driven signal processing chain, Event-driven signal processing theory, Event-driven analog-to-digital conversion techniques, Adaptive-rate analog-to-digital conversion, Level-crossing analog-to-digital converters, Event-driven and adaptive filters, Clockless and self-timed circuits and architectures, Spectral analysis of event-triggered, Asynchronous Delta and Sigma-Delta modulations, Asynchronous Delta and Sigma-Delta modulators implementations, Event-based signal reconstruction methods, Event-based signal processing applications, Asynchronous design of circuits and systems, Intelligent sensors, Continuous-time digital signal processing, Time-mode signal processing, Time encoding machines, Sub-Nyquist signal reconstruction, Compressive sensing

**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 event-based systems.

**Submission of Papers:** The working language of the conference is English. Two types of submissions are solicited. Long Papers – limited to 8 double column pages in a font no smaller than 10-points. Work-in-Progress limited to 4 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.

**Best Paper Award:** Best paper awards in the submission categories will be presented at the conference banquet dinner.

**Further Information:** EBCCSP 2015 Conference Secretariat: Tel: + 48 12 617 3034, Fax: + 48 12 633 2398; Email: contact@ebccsp2015.org

**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 2015 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 regular and special sessions papers:</i>	January 15, 2015
<i>Notification of acceptance of regular and special sessions papers:</i>	March 15, 2015
<i>Deadline for submission of work-in-progress papers</i>	March 20, 2015
<i>Notification of acceptance of work-in-progress papers:</i>	April 10, 2015
<i>Final manuscripts due – regular and special sessions:</i>	May 1, 2015
<i>Final manuscripts due – work-in-progress papers :</i>	May 1, 2015

<http://www.ebccsp2015.org>

