

[Special Session on Advancing Business Process Management \(A-BPM\)](#)  
[at 42nd Euromicro Conference series on Software Engineering and Advanced Applications \(SEAA\)](#)

Over the last decades, Business Process Management (BPM) research field has delivered a large collection of methods, techniques and tools to effectively discover, analyze, (re)design, execute and monitor business processes. The successful development of high-quality process-oriented information systems, however, requires a coherent mixture of methods, tools, and techniques originating not only from the BPM but also from other engineering disciplines, such as software engineering.

Software engineering has long been a source of inspiration for the BPM field. However, BPM also offers novel approaches that bring fundamental changes to the way the process-oriented systems are designed, implemented and maintained. Particularly the paradigm shift towards more agile, participative and stakeholder-driven BPM relates to many Software Development topics like Reactive Programming, Microservices or Agent Technology.

Hence, mutual effort could be worthwhile to bring benefit to both communities.

We invite researchers and practitioners to contribute to the special session on the practical and theoretical aspects of the BPM, particularly those that are in relation to software engineering methods, techniques and tools, and their applications in implementing “process-oriented systems”. Contributions that would raise discussions on the possibilities to integrate approaches in the BPM and software engineering fields are encouraged.

The topics of interest include but are not limited to:

- Requirements definition, design, implementation, testing, deployment, and maintenance of “process-oriented information systems”
- Business process lifecycle management (possibly in relation to Software management)
- Business process modeling (possibly in relation to Requirements engineering, Software modeling and design)
- Business process design and execution (possibly in relation to Model-based software development)
- Business process improvement (possibly in relation to Software process improvement)
- Business process implementation (possibly in relation to Reactive Programming, Microservices, Service-based systems & SOA)
- Various Aspects of interfacing BPM with Agent Technologies (agent types, frameworks, notations, interface definition languages, APIs, architectures, schemes, transformation techniques a.t.l.)
- BPM Systems (possibly in relation to Software development)
- Agile BPM (possibly in relation to Agile software development)
- Business process model quality (possibly in relation to Software [model] quality)
- Business process model understandability (possibly in relation to Software [model] understandability)
- Business process maintainability (possibly in relation to Software maintainability)
- Business process maturity (possibly in relation to Software process maturity)
- Organizational and cultural aspects of BPM
- Business strategy, business models and business processes
- Business process architecture
- Cross-organizational BPM
- Adaptive Case Management
- Stakeholder-driven BPM
- Business process and software evolution
- BPMN and UML

## **Submissions**

A-BPM special session will follow the general SEAA 2016 submission guidelines. We encourage submission of technical research papers (4-8 pages) and experience reports (4-8 pages). Papers must contain original unpublished work, describe significant novel contributions, and provide evidence on the validation of results. In particular, reports on industrial applications are welcome.

Each manuscript should include the complete paper text, all illustrations, and references. The manuscript should conform to the required CPS format: single-spaced, double column, US letter page size, 10-point size Times Roman font, up to 8 pages. Download templates at:

[http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html).

CPS, Conference Publishing Services, publishes the SEAA Proceedings (submitted for ISI indexing), submitted to the IEEE Xplore Digital Library.

A selection of best papers will be invited to submit extended versions for tentative publication in a Special Section of the journal of Information and Software Technology published by Elsevier.

Submissions will be handled via EasyChair.

## **Special Session Organizers:**

Oktay Turetken, *Eindhoven University of Technology, Netherlands*

Werner Schmidt, *Technische Hochschule Ingolstadt, Germany*

## **Program Committee (TO BE CONFIRMED)**

Maya Daneva, *University of Twente, Netherlands*

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