CALL FOR PAPERS

BMSD 2018

2–4 July
Vienna, Austria

Eighth International Symposium on Business Modeling and Software Design

Chair:
Dr. Boris Shishkov,
BAS / IICREST, Bulgaria
Delft University of Technology, The Netherlands

Keynote Lecturers:
Prof. Dr. Jan Mendling, WU Vienna, Austria
Prof. Dr. Roy Oberhauser, Aalen University, Germany

The symposium is organized by **IICREST**, co-organized by **WU Vienna**, and technically co-sponsored by **BPM-D**. Cooperating organizations are: **AUTH** - Aristotle University of Thessaloniki, **TU DELFT** - Delft University of Technology, **CTIT** - the U-Twente Centre for Telematics and Information Technology, **SIKS** - the Nederlands Research School for Information and Knowledge Systems, and **AMAKOTA** Ltd.

BMSD is a leading international discussion and knowledge dissemination forum that brings together Researchers and Practitioners interested in: (i) Modeling in general and in particular - Conceptual Modeling, Goal Modeling, Value Modeling, Business/Enterprise Modeling, Process Modeling, Model-Driven Engineering; (ii) Enterprise Engineering and its relation to Software Generation; (iii) Information Systems Architectures and Design.

In 2018, BMSD will be held in Vienna, Austria, following previous events in Spain (Barcelona, 2017), Greece (Rhodes, 2016), Italy (Milan, 2015), the Grand Duchy of Luxembourg (Luxembourg, 2014), The Netherlands (Noordwijkerhout, 2013), Switzerland (Geneva, 2012), and Bulgaria (Sofia, 2011).

We welcome paper submissions from but not limited to the following areas and topics:

1. BUSINESS PROCESSES AND ENTERPRISE ENGINEERING
- enterprise systems
- enterprise system environments and context
- construction and function
- actor roles
- signs and affordances
- transactions
- business processes
- business process coordination
- business process optimization
- business process management and strategy execution
- production acts and coordination acts
- regulations and business rules
- enterprise (re-) engineering
- enterprise interoperability
- inter-enterprise coordination
- enterprise engineering and architectural governance
- enterprise engineering and software generation
- enterprise innovation

2. BUSINESS MODELS AND REQUIREMENTS
- essential business models
- re-usable business models
- business value models
- business process models
- business goal models
- integrating data analytics in business modeling
- semantics and business data modeling
- pragmatics and business behavior modeling
- business modeling viewpoints and overall consistency
- business modeling landscapes
- requirements elicitation
- domain-imposed and user-defined requirements
- requirements specification and modeling
- requirements analysis and verification
- requirements evolution
- requirements traceability
- usability and requirements elicitation

3. BUSINESS MODELS AND SERVICES
- enterprise engineering and service science
- service-oriented enterprises
- from business modeling to service-oriented solutions
- business modeling for software-based services
- service engineering
- business-goals-driven service discovery and modeling
- technology-independent and platform-specific service modeling
- re-usable service models
- business-rules-driven service composition
- web services
- autonomic service behavior
- context-aware service behavior
- service interoperability
- change impact analysis and service management
- service monitoring and quality of service
- services for IoT applications
- service innovation

4. BUSINESS MODELS AND SOFTWARE
- enterprise engineering and software development
- model-driven engineering
- co-design of business and IT systems
- business-IT alignment and traceability
- alignment between IT architecture and business strategy
- business strategy and technical debt
- business-modeling-driven software generation
- normalized systems and combinatorial effects
- software generation and dependency analysis
- component-based business-software alignment
- objects, components, and modeling patterns
- generic business modeling patterns and software re-use
- business rules and software specification
- business goals and software integration
- business innovation and software evolution
- software technology maturity models
- domain-specific models
- crosscutting concerns - security, privacy, distribution, recoverability, logging, performance monitoring

5. INFORMATION SYSTEMS ARCHITECTURES AND PARADIGMS
- enterprise architectures
- service-oriented computing
- software architectures
- cloud computing
- autonomic computing (and intelligent software behavior)
- context-aware computing (and adaptable software systems)
- affective computing (and user-aware software systems)
- aspect-oriented computing (and non-functional requirements)
- architectural styles
- architectural viewpoints

6. DATA ASPECTS IN BUSINESS MODELING AND SOFTWARE DEVELOPMENT
- data analytics and quality of data
- data-flow analysis
- data semantics
- knowlidge identification
- data modeling in business processes
- data management
- knowledge management
- ontologies
- statistical analysis and context states
- data distributions and occurrence probabilities

Key dates

Paper submission deadline: **12 March 2018**
Notification of acceptance: **23 April 2018**
Final paper submission: **7 May 2018**

Types of contributions

Regular Papers - presenting research that is completed or almost finished
Position Papers - presenting an arguable opinion about an issue
Invited Papers - submitted by best paper authors and BMSD former/future Keynotes

Paper formats

Full Papers - 10-page limit in the symposium proceedings (oral presentation)
Short Papers - 6-page limit in the symposium proceedings (oral presentation)
Posters - 4 page limit in the symposium proceedings (poster presentation)

How to submit a paper (7 steps)

1. View the technical scope; **2.** Prepare a contribution of no less than 3 and no more than 8 pages; **3.** Decide whether you are submitting your contribution as a Regular Paper or as a Position Paper; **4.** Do paper formatting, using the provided templates (http://www.is-bmsd.org); **5.** Remove your names and the names of your co-authors (and also your affiliations) from the title and references sections; **6.** Save the file as PDF; **7.** e-Mail the file to: secretariat@iicrest.org by the 12th of March, putting in the Subject: "BMSD 2018, Regular/Position Paper".

Publication

Accepted papers will be presented at BMSD 2018, included in the symposium proceedings, published by Springer, and indexed by SCOPUS and DBLP.

Proceedings of previous editions

Venue

The BMSD sessions will be held at WU Vienna, one of the most prestigious Austrian universities. Vienna is among the most popular cities in the World, inspiring with its culture, art and traditions.

For more information

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