BMSD 2018

Eighth International Symposium on Business Modeling and Software Design

Vienna, Austria • 2-4 July 2018

Organized & Sponsored by IICREST, Co-Organized by WU Vienna

In Cooperation with AUTH, TU Delft, CTIT, IMI-BAS, SIKS, and AMAKOTA
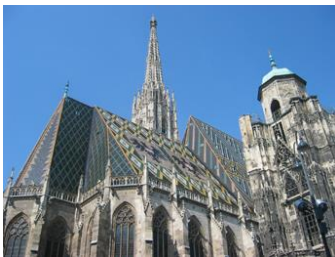
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http://www.is-bmsd.org

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Chair:      Boris Shishkov      (Bulg. Academy of Sciences / IICREST, Bulgaria)

Keynote Speakers:

            Jan Mendling        (WU Vienna, Austria)
            Roy Oberhauser      (Aalen University, Germany)
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BMSD is a leading international forum that brings together researchers and practitioners interested in business modeling and its relation to software design. Since 2011, we have enjoyed seven successful BMSD editions: Sofia'11, Geneva'12, Noordwijkerhout'13, Luxembourg'14, Milan'15, Rhodes'16, and Barcelona'17.

Automating (partially) enterprise processes by means of software systems can only be accomplished in a methodological and systematic way, if based on corresponding enterprise models - the software components (that need to be deployed and initialized before they can be run) are to be specified and designed in such a way that they essentially stem from corresponding enterprise models. On the other hand, we may have service-based systems where we use services (running software instances) and again we need underlying enterprise models in order to be able to adequately identify and compose services since this is all about the fulfillment of (business) goals. We need underlying enterprise models because they would allow for:

- adequate reflection of business REQUIREMENTS in the system under development;
- TRACEABILITY between requirements and architecture;
- FLEXIBILITY with regard to system updates and evolution.

We would hence need underlying enterprise models no matter if we are realizing automation of processes (by means of software components) or if we are accomplishing service-based solutions. The gap between information systems (including service-based ones) and underlying enterprise models has been posing challenges to systems engineers, IT architects, and software developers. Thus, the scientific areas of interest to BMSD 2017 are: (i) Business Processes and Enterprise Engineering; (ii) Business Models and Requirements; (iii) Business Models and Services; (iv) Business Models and Software; (v) Information Systems Architectures and Paradigms; (vi) Data Aspects in Business Modeling and Software Development.

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

BUSINESS PROCESSES & 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

BUSINESS MODELS & 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
croscutting concerns - security, privacy, distribution, recoverability, logging, perf. monitoring

BUSINESS MODELS & 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

INF. SYSTEMS ARCHITECTURES & 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-funct. requirements)
architectural styles
architectural viewpoints

BUSINESS MODELS & 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

DATA ASPECTS IN BUS. MODELING & SOFTWARE DEV.

data analytics and quality of data
data-flow analysis
data semantics
knowledge identification
data modeling in business processes
data management
knowledge management
ontologies
statistical analysis and context states
data distributions and occurrence probabilities

Symposium Theme

ENTERPRISE ENGINEERING AND SOFTWARE ENGINEERING,
PROCESSES AND SYSTEMS FOR THE FUTURE

Types of Contributions

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

Submission

Via e-Mail   - to: secretariat [at] iicrest.org;
                             - anonymized PDF.

Publication

BMSD'18 Proceedings - published by Springer;
                             - indexed by SCOPUS;
                             - indexed by DBLP.

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.

Contact the Chair

Via e-Mail   - b.b.shishkov [at] iicrest.org; b.b.shishkov [at] tudelft.nl
Correspondence Address   - PO Box 104; 1618 Sofia; Bulgaria