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Website: <http://www.is-bmsd.org>

6-8 July
Berlin, Germany

BMSD 2020
ten years on

Tenth International Symposium
on Business Modeling and Software Design

Chair:

Dr. Boris Shishkov,
ULSIT / BAS / IICREST, Bulgaria



Keynote Lecturers:

Prof. Dr. Manfred Reichert, Ulm University, Germany
Prof. Dr. Mathias Weske, HPI - University of Potsdam, Germany

The symposium is organized by **IICREST**, co-organized by **UNIVERSITY OF POTSDAM**, 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 Netherlands 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 2020, BMSD will be held in Berlin, Germany, following previous events in Portugal (Lisbon, 2019), Austria (Vienna, 2018), 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 & 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 & 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 & SOFTWARE DEVELOPMENT

data modeling in business processes
data flows and business modeling
databases, OLTP, and business processes
data warehouses, OLAP, and business analytics
data analysis, data semantics, redundancy, and quality-of-data
data mining, knowledge discovery, and knowledge management
information security and business process modeling
categorization, classification, regression, and clustering
cluster analysis and predictive analysis
ontologies and decision trees
decision tree induction and information gain
business processes and entropy
machine learning and deep learning - an enterprise perspective
uncertainty and context states
statistical data analysis and probabilistic business models

7. BLOCKCHAIN-BASED BUSINESS MODELS & INFORMATION SYSTEMS

smart contracts
blockchains for business process management
blockchain schemes for decentralization
the blockchain architecture - implications for systems and business processes
blockchains and the future of enterprise information systems
blockchains and security / privacy / trust issues

8. IoT AND IMPLICATIONS FOR ENTERPRISE INFORMATION SYSTEMS

the IoT paradigm
IoT data collection and aggregation
business models and IoT
IoT-based software solutions
IoT and context-awareness
IoT and public values
IoT applications: smart cities, e-Health, smart manufacturing.

Key dates

Paper submission deadline: **21 April 2020** (extended)
Notification of acceptance: **27 April 2020**
Final paper submission: **12 May 2020**

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 - 18-page limit in the Springer LNBP proceedings (oral presentation)
Short Papers - 10-page limit in the Springer LNBP proceedings (oral presentation)
Posters - 4 page limit (not included in the Springer LNBP proceedings)

How to submit a paper (7 steps)

1. View the technical scope; 2. Prepare a contribution of no less than 4 and no more than 12 pages (Springer LNCS format); 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 21st of April, putting in the Subject: "BMSD 2020, Regular/Position Paper".

Publication

Accepted papers will be presented at BMSD 2020; Full Papers and Short Papers will be included in the symposium proceedings, published by Springer (LNBPN - Q3, SJR 0.24), and indexed by SCOPUS, Web of Science, and DBLP.



Proceedings of previous editions

2019: <https://link.springer.com/book/10.1007%2F978-3-030-24854-3>
2018: <https://link.springer.com/book/10.1007%2F978-3-319-94214-8>
2017: <http://www.is-bmsd.org/Documents/ProceedingsOfSeventhBMSD.pdf>
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Venue

The BMSD sessions will be held at WIS im Bildungsforum in Potsdam, hosted by University of Potsdam. Potsdam is a special place in Germany, next to the capital Berlin - one of the most popular cities in the World.

For more information

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