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BMSD 2023

3-5 July
Utrecht, The Netherlands

13th International Symposium on Business Modeling and Software Design

Chair:
Assoc. Prof. Dr. Boris Shishkov,
IMI-BAS / ULSIT / IICREST, Bulgaria

Keynote Lecturers:
Prof. Dr. Willem-Jan van den Heuvel,
Jheronimus Academy of Data Science, The Netherlands

Prof. Dr. Roel Wieringa,
University of Twente, The Netherlands

The symposium is organized by **IICREST**, co-organized by the **OPEN UNIVERSITY OF THE NETHERLANDS**, and technically co-sponsored by **BPM-D** and **Cesuur B.V.** Cooperating organizations are: **AUTH** - Aristotle University of Thessaloniki, **IMI-BAS**-Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, **TU DELFT**-Delft University of Technology, **DSI** - the U-Twente Digital Society Institute, **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 2023, BMSD will be held in Utrecht, The Netherlands, with previous events in Switzerland (Fribourg 2022), Bulgaria (Sofia, 2021), Germany (Berlin, 2020), 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
croscutting 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: **24 April 2023** *(extended)*
Notification of acceptance: **1 May 2023**
Final paper submission: **8 May 2023**

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

Paper formats
Full Papers - 18-page limit in the Springer LNBIP proceedings (oral presentation)
Short Papers - 10-page limit in the Springer LNBIP proceedings (oral presentation)
Posters - 4 page limit (not included in the Springer LNBIP 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 24th of April, putting in the Subject: "BMSD 2023, Regular/Position Paper".

Publication
Accepted papers will be presented at BMSD 2023; Full Papers and Short Papers will be included in the symposium proceedings, published by Springer (LNBNP - Q3, SJR 0.30), and indexed by SCOPUS, Web of Science, and DBLP.

Proceedings of previous editions
2022 https://www.is-bmsd.org/Documents/ProceedingsOfTwelfthBMSD.pdf
2021 https://www.is-bmsd.org/Documents/ProceedingsOfEleventhBMSD.pdf
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Venue
The BMSD sessions will be held in Auditorium 6+7, at Open University Study Center - Utrecht. Being the most important city in The Netherlands until the Dutch Golden Age, Utrecht is nowadays a special and important academic and cultural center with prestigious universities, specialised museums and many podia for the performing arts, where the architectonic value of places, such like the ancient Dom Tower and the iconic concert hall, is impressive.

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