# CALL FOR PAPERS

Website: https://www.is-bmsd.org

3-5 July Utrecht, The Netherlands

## BMSD 2023 13th International Symposium on Business Modeling and Software Design

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

**Keynote Lecturers:** 

Prof. Dr. Willem-Jan van den Heuvel,

University of Twente, The Netherlands

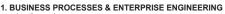
Jheronimus Academy of Data Science, The Netherlands Prof. Dr. Roel Wieringa



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:



enterprise systems enterprise systems environments and context construction and function actor roles signs and affordances transactions

business processes business process coordination

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 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 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. 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

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

#### 4. BUSINESS MODELS AND SOFTWARE

BUSINESS MODELS AND SOFTWARE enterprise engineering and software development model-driven 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 and technical debt 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 objects, components, and modeling patterns generic business modeling patterns and software re-use business rules and software specification business goals 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



DATA ASPECTS IN BUSINESS MODELING & SOFTWAR 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

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

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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

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 Short Papers - 10-page limit in the Springer LNBIP proceedings (oral

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".

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/ProceedingsOffEleventhBMSD.pdf 2020 https://link.springer.com/book/10.1007/978-3-030-52306-0

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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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