

# BMSD'24 Technical Program

July 1	July 2	July 3
	08:30 Welcome Desk Registration	08:45 Welcome Desk Registration
	09:00 <b>Panel</b> <i>Chair: Dr. Boris Shishkov</i>	09:10 <b>BMSD'24 Session 9: Short Papers</b> context awareness
	10:05 <b>BMSD'24 Session 5: Short Papers</b> requirements engineering	09:35 Industrial Talk <b>Coen Suurmond</b>
	10:30 Coffee-Break	10:10 Coffee-Break
	10:45 <b>BMSD'24 Session 6: Full Papers</b> system development	10:30 <b>BMSD'24 Session 10: Short Papers</b> machine learning, object detection and geolocation, software security
	11:45 <b>BMSD'24 Session 7: Full Papers</b> blockchain solutions	12:00 Industrial Talk <b>Mathias Kirchmer</b>
12:30 Welcome Desk Registration	12:45 Lunch	12:45 Lunch
13:00 <b>Opening Session</b>		
13:15 Keynote Lecture <b>Prof. Dr. Bert de Brock</b> <i>Chair: Prof. Dr. Roy Oberhauser</i>	13:45 <b>BMSD'24 Session 8: Full Papers</b> issues and opportunities in business modeling	13:45 <b>Discussion &amp; Closing Session</b>
14:15 Coffee-Break	15:15 Coffee-Break	
14:35 <b>BMSD'24 Session 1: Short Papers</b> functional specifications	15:30 Industrial Talk: <b>RE theory field-tested in an industrial case</b>	
15:00 <b>BMSD'24 Session 2: Full Papers</b> process mining & value streams		
16:00 <b>BMSD'24 Session 3: Full Papers</b> business capability maps & digital transformation	19:00 Meeting Point: Hôtel de Ville Walking Tour - Luxembourg	
17:00 <b>BMSD'24 Session 4: Full Papers</b> declarative semantics and conceptual models & UML and BPMN	20:00 Symposium Dinner	
	22:00	

The list of ACCEPTED PAPERS follows on the next two pages

# BMSD'24: List of Accepted Papers

## Session 1: **FUNCTIONAL SPECIFICATIONS**

### Paper 15:

Developing Functional Specifications of an Information System: A Personal Overview

Presenter: **Bert de Brock**

Author: Bert de Brock

## Session 2: **PROCESS MINING AND VALUE STREAMS**

### Paper 1:

Analysis of the Strengths of Process Mining Techniques in the Optimization of Logistics Processes

Presenter: **Radim Dolak**

Authors: Radim Dolak, Michal Halaska, Jakub Chmelicek

### Paper 3:

From Value Streams and Capability Maps to Protocol Models and Back

Presenter: **Ella Roubtsova**

Author: Ella Roubtsova

## Session 3: **BUSINESS CAPABILITY MAPS AND DIGITAL TRANSFORMATION**

### Paper 4:

A Method to Align Business Capability Maps and Enterprise Data Models

Presenter: **Sefanja Severin**

Authors: Sefanja Severin, Ella Roubtsova, Ben Roelens, Stef Joosten

### Paper 2:

Process-led Digital Transformation: Mastering the Journey towards the Composable Enterprise

Presenter: **Mathias Kirchmer**

Author: Mathias Kirchmer

## Session 4: **DECLARATIVE SEMANTICS AND CONCEPTUAL MODELS & UML AND BPMN**

### Paper 5:

Assigning Declarative Semantics to Some UML Activity Diagrams and BPMN Diagrams

Presenter: **Bert de Brock**

Author: Bert de Brock

### Paper 6:

A Systematic Approach to Derive Conceptual Models from BPMN Models

Presenter: **Ricardo Lopes**

Authors: Ricardo Lopes, João Araújo, Denis Silva da Silveira, Alberto Sardinha

## Session 5: **REQUIREMENTS ENGINEERING**

### Paper 14:

Roles of Natural Language Generation for Requirements Engineering

Presenter: **Bert de Brock**

Author: Bert de Brock

## Session 6: **SYSTEM DEVELOPMENT**

### Paper 7:

An Analysis of Kinds of Skills and Knowledge in Information System Development

Presenter: **Coen Suurmond**

Author: Coen Suurmond

### Paper 8:

VR-SDLC: A Context-Enhanced Life Cycle Visualization of Software-or-Systems Development in Virtual Reality

Presenter: **Roy Oberhauser**

Author: Roy Oberhauser

## Session 7: **BLOCKCHAIN SOLUTIONS**

### Paper 9:

Smart Contracts as Data Quality Consensus Enforcers in Data Markets

Presenter: **Indika Kumara**

Authors: Timothy Heideman, Indika Kumara, Willem-Jan van Den Heuvel, Damian Andrew Tamburri

### Paper 10:

From Mutualism to Amensalism: A Case Study of Blockchain and Digital Identity Wallets

Presenter: **Tamara Roth**

Authors: Tamara Roth, Alexander Rieger, Alexandra Hoess

## Session 8: **ISSUES AND OPPORTUNITIES IN BUSINESS MODELING**

### Paper 11:

A Review on Privacy and Monetization Aspects within BCI and XR-BCI Ecosystems

Presenter: **Narges Yousefnezhad**

Authors: Tuomo Lahtinen, Andrei Costin, Guillermo Suarez-Tangil, Narges Yousefnezhad

### Paper 12:

Researching Multi-Site Artificial Neural Networks' Activation Rates and Activation Cycles

Presenter: **Marcus Grum**

Author: Marcus Grum

## *BMSD'24: List of Accepted Papers (Cont.)*

Paper 13:

Reproducibility of Firmware Analysis: An Empirical Analysis

Presenter: **Narges Yousefnezhad**

Authors: Narges Yousefnezhad, Andrei Costin

Session 9: **CONTEXT AWARENESS**

Paper 16:

Context Awareness and External Factors

Presenter: **Boris Shishkov**

Author: Boris Shishkov

Session 10: **MACHINE LEARNING, OBJECT DETECTION AND GEOLOCATION, SOFTWARE SECURITY**

Paper 17:

Managing Multi-Site Artificial Neural Networks' Activation Rates and Activation Cycles: Experiments on Cross-Enterprise, Multi-Site Deep Learning Systems

Presenter: **Marcus Grum**

Author: Marcus Grum

Paper 18:

Software Architecture for Object Detection in Images Based on Color Features with Integrated Artificial Intelligence

Presenter: **Georgi Tsonkov**

Authors: Georgi Tsonkov, Gabriela Garvanova, Ivan Garvanov, Magdalena Garvanova

Paper 19:

Challenges in Geolocation for Logistics Delivery: A Case Study on the Accuracy in Bulgaria of Google Maps Directions API

Presenter: **Iliyan Iliev**

Authors: Iliyan Iliev, Katia Rasheva-Yordanova, Daniela Borissova

Paper 20:

Understanding SBOMs in Real-world Systems – a Practical DevOps/SecOps Perspective

Presenter: **Narges Yousefnezhad**

Authors: Narges Yousefnezhad, Andrei Costin