

BMSD'26 Technical Program

July 6	
12:30	Welcome Desk Registration
13:00	Opening Session
13:15	Panel Chair: Dr. José Cordeiro
14:00	Keynote Lecture Dr. Boris Shishkov <i>Chair: Prof. Dr. Bert de Brock</i>
15:00	Coffee Break
15:15	BMSD'26 Session 1: Full Papers business process management and statics/dynamics modeling
16:15	BMSD'26 Session 2: Full Papers business information, conceptual modeling, and green IT applications
July 7	
08:30	Welcome Desk Registration
09:00	BMSD'26 Session 3: Full Papers visualizations and engagement measurements
10:00	Coffee Break
10:15	BMSD'26 Session 4: Full Papers shadow information technology and AI-driven zero-click search
11:15	BMSD'26 Session 5: Full Papers AI-driven sentiment analysis and multi-agent coordination
12:15	Lunch
13:15	BMSD'26 Session 6: Full Papers cybersecurity: cryptographic algorithms and rainbow tables
14:15	BMSD'26 Session 7: Full Papers cryptography: security/privacy challenges
14:45	Coffee Break
15:15	BMSD'26 Session 8: Short Papers state machines, process mining, & software development approaches
16:15	BMSD'26 Session 9: Short Papers EIS: human-centricity, norms & smart contracts, BPMN & executable workflows
20:00	Symposium Dinner
22:00	
July 8	
09:15	Welcome Desk Registration
09:45	Industrial Talk Coen Suurmond <i>Chair: Dr. Boris Shishkov</i>
10:45	Coffee Break
11:15	BMSD'26 Session 10: Short Papers geospatial analysis, delivery optimization, and drone tracking
12:15	Lunch
13:15	BMSD'26 Session 11: Short Papers cybersecurity: distress situations and vulnerabilities
14:15	Discussion & Closing Session
14:30	Farewell Coffee Break
	Walking Tour: Rhodes Medieval City

The list of ACCEPTED PAPERS follows on the next two pages

BMSD'26: List of Accepted Papers

Session 1: **BUSINESS PROCESS MANAGEMENT AND STATICS/DYNAMICS MODELING**

Paper 1:

Requirements for Substitutions in Business Processes

Presenter: **Thomas Bauer**

Author: Thomas Bauer

Paper 2:

Statics ⊕ Dynamics

Presenter: **Bert de Brock**

Author: Bert de Brock

Session 2: **BUSINESS INFORMATION, CONCEPTUAL MODELING, AND GREEN IT APPLICATIONS**

Paper 3:

Business Information Systems - About More than IT

Presenter: **Coen Suurmond**

Author: Coen Suurmond

Paper 4:

A High-Level Conceptual Model for Green Data Centre Development: A Design Science Study

Presenter: **Marko Jäntti**

Authors: Marko Jäntti, Jarmo Koponen, Jarno van der Woude, Antti Sipilä

Session 3: **VISUALIZATIONS AND ENGAGEMENT MEASUREMENTS**

Paper 5:

VR-DataOps: Towards an Immersive Visualization of DataOps in Virtual Reality

Presenter: **Roy Oberhauser**

Author: Roy Oberhauser

Paper 6:

Measuring User Engagement in Open Data Platforms A Multi-Layer Framework of Behavioral Indicators

Presenter: **Budi Satrio**

Authors: Budi Satrio, Fernando Kleiman, Marijn Janssen

Session 4: **SHADOW INFORMATION TECHNOLOGY AND AI-DRIVEN ZERO-CLICK SEARCH**

Paper 7:

Charting the Shadows: A Bibliometric Analysis of Shadow IT

Presenter: **Viktor Hense**

Authors: Viktor Hense, Markus Westner, Stefan Rösl, Christian Schieder

Paper 8:

A Compensation Framework for Sustaining Web Content Ecosystems in Zero-Click AI Search Environments

Presenter: **Marcus Grum**

Authors: Oskar Wiesatzki, Marcus Grum

Session 5: **AI-DRIVEN SENTIMENT ANALYSIS AND MULTI-AGENT COORDINATION**

Paper 9:

Aspect-Based Sentiment Analysis with Agentic Generative AI

Presenter: **Jesse van der Sluis**

Authors: Jesse van der Sluis, Joshua Owotogbe, Indika Kumara, Willem-Jan Van Den Heuvel, Damian Andrew Tamburri

Paper 10:

Adaptive Task Orchestration for Cooperative Multi-Agent Coordination: An Empirical Study with POCA

Presenter: **Arslan Toimbekov**

Authors: Bekarys Marat, Assel Akzhalova

Session 6: **CYBERSECURITY: CRYPTOGRAPHIC ALGORITHMS AND RAINBOW TABLES**

Paper 11:

A Public Key System based on Relative Primes, Hensel Lifting, and both Addition and Multiplication

Presenter: **Brent Petersen**

Authors: Dan Kucerovsky, Rodney H. Cooper, Jeff Retallick, Brent R. Petersen

Paper 12:

Cybersecurity and Rainbow Tables – an Analysis

Presenter: **Tuomo Lahtinen**

Authors: Riku Rönkä, Tuomo Lahtinen, Anton Satamo, Andrei Costin

Session 7: **CRYPTOGRAPHY: SECURITY/PRIVACY CHALLENGES**

Paper 13:

Review of Cryptographic Security and Privacy Techniques

Presenter: **Ahsan Saleem**

Authors: Ahsan Saleem, Andrei Costin, Guillermo Suarez-Tangil

BMSD'26: List of Accepted Papers (Cont.)

Session 8: **STATE MACHINES, PROCESS MINING, AND SOFTWARE DEVELOPMENT APPROACHES**

Paper 14:

Dynamic State Machines
Presenter: **Bert de Brock**
Author: Bert de Brock

Paper 15:

Theoretical and Practical Use of Process Mining Techniques in PrestaShop e-Commerce Solution
Presenter: **Petr Zylai**
Authors: Radim Dolak, Petr Zyla, Michal Halaska, Petr Suchanek

Paper 16:

Designs and Solutions - Three Typical Approaches: A Software Development Perspective
Presenter: **Boris Shishkov**
Author: Boris Shishkov

Session 9: **EIS: HUMAN-CENTRICITY, NORMS & SMART CONTRACTS, BPMN & EXECUTABLE WORKFLOWS**

Paper 17:

Towards Model-Driven Development with NOMIS: Design Lessons from an Implemented Case Study
Presenter: **José Cordeiro**
Authors: Andrei-Florin Balcan, José Cordeiro

Paper 18:

FinOps on AWS: A Model-Driven Cloud Sourcing Governance Framework
Presenter: **Nikitas Karanikolas**
Authors: Evangelia Filiopoulou, Anargyros Tsadimas, Georgia Dede, Vassilis Dalakas, Achilleas Kalogirou, Nikitas Karanikolas, Mara Nikolaidou

Paper 19:

A Layered Architecture for Trustable AI-Powered FinTech Smart Contracts
Presenter: **Arslan Toimbekov**
Authors: Ilyas Sabeshuly, Arslan Toimbekov, Assel Akzhalova, Nuriman Altybayeva, Dmitriy Tolkachev

Session 10: **GEOSPATIAL ANALYSIS, DELIVERY OPTIMIZATION, AND DRONE TRACKING**

Paper 20:

A Data-Driven Framework for Predicting Spatial Discrepancies in Delivery Operations
Presenter: **Iliyan Iliev**
Authors: Iliyan Iliev, Katia Rasheva-Yordanova, Daniela Borissova

Paper 21:

A Multimodal Model for Drone Tracking through the Integration of Heterogeneous Data
Presenter: **Georgi Tsonkov**
Authors: Ivan Garvanov, Georgi Tsonkov, Magdalena Garvanova, Desislava Garvanova, Iliya Atanasov, Petar Trifonov

Paper 22:

Model of a Drone Detection System Using Doppler and Micro-Doppler Analysis
Presenter: **Georgi Tsonkov**
Authors: Magdalena Garvanova, Ivan Garvanov, Denis Chikurtev, Ava Chikurteva, Ventsislav Dragoev, Miroslav Tomov

Session 11: **CYBERSECURITY: DISTRESS SITUATIONS AND VULNERABILITIES**

Paper 23:

A Distributed Crowdsourcing Architecture for Distress Beacons
Presenter: **Ahsan Saleem**
Authors: Ahsan Saleem, Andrei Costin, Guillermo Suarez-Tangil

Paper 24:

ChatGPT, LLMs, and Cybersecurity (Mis)information Pipelines – A Practitioner’s Perspective
Presenter: **Tuomo Lahtinen**
Authors: Tuomo Lahtinen, Andrei Costin