

BMSD'23 Technical Program

July 3	July 4	July 5
	08:30 Welcome Desk Registration	08:45 Welcome Desk Registration
	09:00 Panel <i>Chair: Dr. Boris Shishkov</i>	09:10 BMSD'23 Session 10: Full Papers change management and knowledge management for business processes
	10:00 BMSD'23 Session 4: Full Papers function-as-a-service	10:10 Coffee-Break
	10:30 Coffee-Break	10:30 BMSD'23 Session 11: Short Papers business rules, software engineering, and technical change
	10:45 BMSD'23 Session 5 context awareness & trust	11:30 BMSD'23 Session 12: Short Papers AR applications and Internet-of-Things (IoT)
	11:35 BMSD'23 Session 6 OO specifications & database triggers	12:15 Industrial Talk Coen Suurmond
12:30 Welcome Desk Registration	12:45 Lunch	12:45 Lunch
13:00 Opening Session		13:45 BMSD'23 Session 13: Full Papers BP management & digital transformation
13:15 Keynote Lecture Prof. Dr. Willem-Jan vd Heuvel <i>Chair: Prof. Dr. Roy Oberhauser</i>	13:45 BMSD'23 Session 7: Short Papers domain-specific modeling, decision making, and social justice	14:15 Industrial Talk Dr. Mathias Kirchmer
14:15 Coffee-Break	14:45 BMSD'23 Session 8: Short Papers organizational semiotics and BPMN modeling	14:45 Coffee-Break
14:30 Keynote Lecture Prof. Dr. Roel Wieringa <i>Chair: Prof. Dr. Bert de Brock</i>	15:30 Coffee-Break	15:00 BMSD'23 Session 14: Short Papers vulnerabilities within IoT devices and cybersecurity
15:30 BMSD'23 Session 1: Full Papers enterprise modeling & context awareness	15:45 BMSD'23 Session 9: Short Papers organizational performance and organizational change	16:00 Discussion & Closing Session
16:30 BMSD'23 Session 2: Full Papers virtual reality & conceptual modeling		
17:30 BMSD'23 Session 3: Full Papers organizational capabilities	18:15 Meeting Point: Domplein	
	Walking Tour - Utrecht	
	20:00 Symposium Dinner	
	22:00	

The list of ACCEPTED PAPERS follows on the next three pages

BMSD'23: List of Accepted Papers

Session 1: **ENTERPRISE MODELING AND CONTEXT AWARENESS**

Paper 4:

Enterprise Modeling with Conventions

Presenter: **Ella Roubtsova**

Authors: Stef Joosten, Ella Roubtsova

Paper 5:

Business Modeling and (Human) Context Awareness

Presenter: **Coen Suurmond**

Author: Coen Suurmond

Session 2: **VIRTUAL REALITY AND CONCEPTUAL MODELING**

Paper 7:

VR-EvoEA+BP: Using Virtual Reality to Visualize Enterprise Context Dynamics Related to Enterprise Evolution and Business Processes

Presenter: **Roy Oberhauser**

Authors: Roy Oberhauser, Marie Baehre, Pedro Sousa

Paper 8:

Past Achievements and Future Opportunities in Combining Conceptual Modeling with VR/AR: A Systematic Derivation

Presenter: **Fabian Muff**

Authors: Fabian Muff, Hans-Georg Fill

Session 3: **ORGANIZATIONAL CAPABILITIES**

Paper 10:

Development of a Capability Maturity Model for Organization-wide Green IT Adoption

Presenter: **Victor Brand**

Authors: Victor Brand, Maryam Razavian, Baris Ozkan

Session 4: **FUNCTION-AS-A-SERVICE**

Paper 9:

FaaSOnto: A Semantic Model for Enabling Function-as-a-Service Platform Selection

Presenter: **Damian Andrew Tamburri**

Authors: Stijn van Geene, Indika Kumara, Geert Monsieur, Willem-Jan van Den Heuvel, Damian Andrew Tamburri

Session 5: **CONTEXT AWARENESS AND TRUST**

Paper 6:

Incorporating Trust into Context-Aware Services

Presenter: **Boris Shishkov**

Authors: Boris Shishkov, Hans-Georg Fill, Krassimira Ivanova, Marten van Sinderen, Alexander Verbraeck

Paper 20:

Comparing Sensor-Based Computing and Predictive Data Analytics for Usage in Context-Aware Applications

Presenter: **Boris Shishkov**

Authors: Boris Shishkov, Georgi Yosifov, Boyan Bontchev

Session 6: **OO SPECIFICATIONS AND DATABASE TRIGGERS**

Paper 11:

From Conceptual Specification to OO Specification

Presenter: **Bert de Brock**

Authors: Bert de Brock, Rein Smedinga

Paper 25:

A Development Example: From Conceptual Specification to OO Specification

Presenter: **Bert de Brock**

Authors: Rein Smedinga, Bert de Brock

Paper 26:

Managing Database Trigger Design

Presenter: **Bert de Brock**

Author: Bert de Brock

Session 7: **DOMAIN-SPECIFIC MODELING, DECISION MAKING, AND SOCIAL JUSTICE**

Paper 16:

Composing an Initial Domain-Specific Modeling Language Notation by Reusing Icons

Presenter: **Ben Roelens**

Authors: Ben Roelens, Rob Ebben, Rogier van de Wetering

Paper 17:

Validating Trust in Human Decisions to Improve Expert Models Based on Small Data Sets

Presenter: **Johan Silvander**

Authors: Johan Silvander, Shailesh Pratap Singh

Paper 18:

How IS Affect Social Justice Tensions: A Case Study of Asylum Management

Presenter: **Tamara Roth**

Authors: Tamara Roth, Alexander Rieger, Gilbert Fridgen, Amber Young

BMSD'23: List of Accepted Papers (Cont.)

Session 8: **ORGANIZATIONAL SEMIOTICS AND BPMN MODELING**

Paper 14:

A Semiotic Analysis of the Representativeness of BPMN Graphic Elements

Presenter: **João Araújo**

Author: Evelyne Batista Duarte, Rafael Batista Duarte, Denis Silva da Silveira

Paper 15:

A Systematic Approach to Derive User Stories and Gherkin Scenarios from BPMN Models

Presenter: **João Araújo**

Authors: Daniel Mateus, Denis Silva da Silveira, João Araújo

Session 9: **ORGANIZATIONAL PERFORMANCE AND ORGANIZATIONAL CHANGE**

Paper 12:

Architecting Agility: Unraveling the Impact of AI Capability on Organizational Change and Competitive Advantage

Presenter: **Rogier van de Wetering**

Authors: Rogier van de Wetering, Petra de Weerd-Nederhof, Samaneh Bagheri, Roger Bons

Paper 13:

Enterprise Architecture Artifacts' Role in Improved Organizational Performance

Presenter: **Frank Grave**

Authors: Frank Grave, Rogier Van de Wetering, Rob Kusters

Session 10: **CHANGE MANAGEMENT AND KNOWLEDGE MANAGEMENT FOR BUSINESS PROCESSES**

Paper 1:

Modeling Change in Business Processes

Presenter: **Norbert Gronau**

Authors: Christof Thim, Norbert Gronau, Jennifer Haase, Marcus Grum, Arnulf Schueffler, Wiebke Roling, Annette Kluge

Paper 3:

Serious Game-Based Haptic Modeling - An Application Oriented Approach for Sequentially Developing New Business Models from Tacit Knowledge

Presenter: **Norbert Gronau**

Authors: Norbert Gronau, Malte Teichmann, Edzard Weber

Session 11: **BUSINESS RULES, SOFTWARE ENGINEERING, AND TECHNICAL CHANGE**

Paper 22:

A Web-based Approach for Traceability in Rule-based Business Information Systems

Presenter: **Lloyd Rutledge**

Authors: Lloyd Rutledge, Brent Berghuis, Kelvin Lim, Mark Soerokromo

Paper 23:

A Conceptual Model for the Selection of Methods for Software Engineering Process Improvement

Presenter: **Tiago Amorim**

Authors: Tiago Amorim, Andreas Vogelsang

Paper 24:

Towards Logs-driven Monitoring of Technical Degradations: An ERP Perspective

Presenter: **Pieter van de Griend**

Authors: Pieter van de Griend, Rob Kusters, Jos Trienekens

Session 12: **AR APPLICATIONS AND INTERNET-of-THINGS**

Paper 19:

Applying Augmented Reality in Tourism: Analyzing Relevance as it Concerns Consumer Satisfaction and Purchase Intention

Presenter: **Faisal Aburub**

Author: Faisal Aburub

Paper 21:

A Model of a Multi-Sensor System for Detection and Tracking of Vehicles and Drones

Presenter: **Ivan Garvanov**

Authors: Ivan Garvanov, Magdalena Garvanova, Daniela Borissova, Gabriela Garvanova

Session 13: **BP MANAGEMENT AND DIGITAL TRANSFORMATION**

Paper 2:

Realizing Appropriate Process Standardization – Basis for Effective Digital Transformation

Presenter: **Mathias Kirchmer**

Author: Mathias Kirchmer

Session 14: **VULNERABILITIES WITHIN IoT DEVICES AND CYBERSECURITY**

Paper 27:

A View on Vulnerabilities within IoT Devices in the Smart Home Environment

Presenter: **Annika Nykanen**

Authors: Annika Nykanen, Andrei Costin

Paper 28:

On Tools for Practical and Effective Security Policy Management and Vulnerability Scanning

Presenter: **Ilkka Urtamo**

Author: Ilkka Urtamo, Andrei Costin

BMSD'23: List of Accepted Papers (Cont.)

Paper 29:

Linking Computers to the Brain: Overview of Cybersecurity Threats and Possible Solutions

Presenter: **Tuomo Lahtinen**

Authors: Tuomo Lahtinen, Andrei Costin